




From: NEC Biometrics <idsolutions@necam.com>
Sent: Wednesday, July 16, 2014 9:15 AM
To: Mc Mullen, Jesse C.
Subject: NEC Biometrics Newsletter – July 2014

Share this with others:   

Message from Raffie

Welcome to the inaugural issue of NEC's Biometric Solutions newsletter! This newsletter is designed to boost the frequency and depth of communication with our customers and colleagues. There are exciting changes underway at NEC, and I'm eager to share the details with you.

Of course, our newsletter will cover information about industry trends, and the latest biometric products and solutions from NEC...but there is more to NEC than just state-of-the-art technologies. The NEC family is focused on building a responsive and accessible organization that puts the needs of our customers first.

Open dialogue and the exchange of ideas helps to build a strong organization that develops effective solutions to real problems. We truly value close customer relationships, in fact, many of our friendships with customers span decades.

Your success is our success as a community. Please share any exciting achievements in identity management so that we can include the news in



99th International
Association for Identification
August 10–16, Minneapolis

Annual AFIS Internet User
Conference
August 24–28, Salt Lake City

AAMVA Conference
August 25–27, Dover, DE

Global Identity Summit
Sept 16–18, Tampa

ASIS 2014
Sept 29–Oct 2, Atlanta



»NIST Validation
»Brochures, Case Studies &
White Papers
»www.necam.com/biometrics



(800) 777-2347
IDSolutions@necam.com



the next issue of this quarterly newsletter. Enjoy!



Raffie Beroukhim

Frost & Sullivan Awards NEC for Customer Value Leadership

NEC's NeoFace® Facial Recognition Suite was recognized by noted global research firm, Frost & Sullivan, with the 2014 Customer Value Leadership Award. As a recipient of one of their highest awards – Excellence in Best Practices – NEC demonstrated strong, user-friendly methods for facial recognition biometrics in mainstream commercial applications.

Authentication needs to be flexible, cost-effective, convenient and easy. With the most robust algorithm among facial recognition biometrics, NEC's NeoFace solution can make facial recognition biometrics a reality in mainstream commercial applications for authentication and in government applications for identification.

[Learn more](#)

NeoFace Facial Recognition Ranks First (Again)

NEC achieved the top accuracy score and best-in-class performance, again, in the Face Recognition Vendor Test (FRVT) 2013 performed by the U.S. National Institute of Standards and Technology (NIST) with its NeoFace facial recognition technology. Viewed widely as the best benchmark to determine the most accurate facial recognition software solution for one-to-many searching under a variety of situations, results can be found in NIST's Interagency Report: NISTIR 8009 – Performance of Face Recognition Algorithms.

NEC's technology took first place for the third consecutive time following the 2009 Multiple Biometric Grand Challenge (MBGC 2009) and 2010–2011 Multiple Biometrics Evaluation (MBE 2010–2011). The most recent FRVT test for one-to-many searching (class C) evaluated the accuracy of database enrollments and personal identity searches using massive volumes of facial image data (over 1.6 million people), including multiple “high quality” criminal mugshots, “low quality” webcam snap shots, and “standard quality” passport/visa photo images.



From: Filippi
Sent: Friday, May 02, 2014 10:05 AM
To: Filippi, Joseph
Subject: 90 second News Video Showing Success of NEC NeoFace Reveal Facial Recognition

I wanted to share with you the following short video clip featuring an NEC Proof of Concept for Facial Recognition. ***this only runs a minute and a half!

Recently, one of our Neo Face Reveal pilots in Atlanta received some positive press. Lt. Dan Rasmussen, Director of the Fulton County Burglary Task Force was interviewed by local channel 2 news. Although NEC was not mentioned by name, the POC has made significant impact to the agency in a short 2 months and to-date has received over 17 strong investigative leads.

<http://www.wsbtv.com/videos/news/apd-testing-facial-recognition-software/vCWz5S/>

Please let me know if you would like updated information on our suite of NeoFace Solutions from NEC.

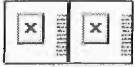
Best Regards,

Joe

Joe Filippi | Sr. Account Manager | Biometrics Solutions Division
NEC Corporation of America | www.necam.com | joseph.filippi@necam.com
10850 Gold Center Drive, Suite 200, Rancho Cordova, CA 95670 | M [REDACTED] F 916.463.7040

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From: Raffie Beroukhim <raffie.beroukhim@necam.com>
Sent: Thursday, March 26, 2015 9:30 AM
To: Mc Mullen, Jesse C.
Subject: An Update from Raffie Beroukhim



With spring and the new season upon us, I am proud to share the accomplishments of NEC's 2014 financial year (which ends March 31), and provide the following updates about NEC Biometrics:

Cloud and Service Offerings – We added three new customers to our data center in Rancho Cordova, CA. In addition to WIN, now Los Angeles County Sheriff's Department, Las Vegas Metro PD, and another public safety agency have selected NEC's IDaaS (Identity as a Service) model where NEC will host the system and data and provide services according to their Service Level Agreement (SLA).

Research – In fingerprint and facial core technology we again, as reported by NIST, demonstrated our superiority. Competing against 18 other companies, NEC attained the top ranking in each of the FpVTE's 2012 ten fingerprint identification tests; and for facial matching, FRVT 2014 ranks us #1 and is quite complimentary of the NEC facial recognition technology. Facial recognition "leads" generated from our technology installed at many police departments are now in the thousands and we are proud to have led the effort of introducing latent face matching to the market. The results we are generating keep our communities even safer.

Innovations – Our research is incorporated into many new products. Following a successful launch, delivery and acceptance of Integra-ID™ 5 and NeoFace Reveal, this past January we introduced NeoScan 45, the industry's thinnest and lightest FAP 45 mobile fingerprint capture device. As is customary of our new product introductions, we have already built a significant backlog for the delivery of the device!

Enterprise Market – We now have a dedicated team to address the needs of the enterprise market. From retail, to hospitality, education and healthcare, there is a growing need for biometrics applications in these fields that NEC has a lot to offer.

Corporate Citizenship – NEC continues to dedicate a significant investment in support of the public safety community. In August, we shall again host the keynote at the Centennial Anniversary of International Association for Identification (IAI). Our own AFIS Internet User's Conference, which is to be in Manhattan Beach, CA, has already secured a compelling educational program packed with high-ranking officials from the local and international public safety community, including the Sheriff of San Bernardino County and

In parallel, we continue to attract the best new talent, improve our processes, and put in place a stable and secure infrastructure in a tireless endeavor to further earn your trust, satisfaction and delight.

As always, I wish to thank all of you who have supported and assisted us in these accomplishments. The gratification we get in seeing our systems in operation in our communities is rewarding. A particular gratitude to the employees of NEC Biometrics who's dedicated and determined work makes this possible.

Spring calls for a new beginning; a new season. Our season is about to start again. We remain committed and driven to build upon these and more. Come along on the ride with us.

Thank you, again.



Raffie Beroukhim
VP, Biometrics Solutions Group
NEC Corporation of America



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From: Sakkal
Sent: Thursday, December 03, 2015 2:32 PM
Subject: Combating Crime with Large-Scale Face-Search Technology

Good afternoon to all:

I am very pleased and proud to share with you this exciting news in respect to NEC's ongoing collaboration with Michigan State University's (MSU) Biometric Research Group laboratory (please see <http://msutoday.msu.edu/news/2015/combating-crime-with-large-scale-face-search-technology/>).

The rapid growth in surveillance cameras is resulting in millions of face images and videos being captured every day. As we all know too well, the ability to quickly and accurately search all these images to assist in identifying criminal and terrorism suspects, while a very complex task, is a critical undertaking that, done well, can result in safer communities across the globe.

MSU's automatic face-search system uses a photo from a surveillance camera or crime-scene image to quickly retrieve a list of potential suspects by searching a large database of face images and finding the closest match.

To make the large-scale face-search system available for deployment by domestic and international law enforcement, public safety and national security communities, MSU has licensed it to NEC.

NEC is committed to maintain its proven leadership position in facial recognition solutions. In addition to our own continued research, partnerships with academia, in particular MSU, are an important aspect of this commitment. NEC looks forward to the fusion of MSU's large-scale face-search algorithm with our industry-leading NeoFace facial algorithms to offer even more compelling solutions to address ever-increasing security threats and enhance public and national security.

Your comments and or questions in this regard are, as always, welcome.

Thanks and best...

/PS

Peter Sakkal | Senior Account Manager, Biometrics Solutions Division
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peter.sakkal@necam.com | www.necam.com

From: Sakkal
Sent: Thursday, February 16, 2017 9:25 PM
To: Perfetti, Joseph F.
Cc: Gangumalla, Vishnu; Lukas, Dan
Subject: CPD AFIS Upgrade Budgetary Proposal
Attachments: CPD Integra-ID MBIS Upgrade Proposal_FINAL_02-16-2017.pdf

Hello Joe,

As discussed, please find attached our budgetary proposal for the upgrade of the current CPD AFIS to the Integra-ID MBIS platform.

Once you've had a chance to review the information contained therein, please let us know when would be a good time to review any questions or comments which may arise.

Thank you,

/PS

Peter Sakkal

Senior Account Manager, Biometrics Solutions Division

NEC Corporation of America

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From: Sakkal, Peter
Sent: Wednesday, February 01, 2017 2:54 PM
To: Perfetti, Joseph F. <Joseph.Perfetti@chicagopolice.org>
Cc: Gangumalla, Vishnu <vishnu.gangumalla@necam.com>; Dan.Lukas@necam.com
Subject: RE: Thank You

Good afternoon Joe,

Just a quick follow-up to my earlier note, to let you know that we're on track to complete the proposal update within the next couple of weeks.

As such, I thought that it might be a good idea to begin looking at mutually convenient dates in the next month or so during which we could present and demonstrate the latest Integra-ID 5 MBIS and Archive platform to you and your team.

This would be the same platform we presented/demonstrated recently to ISP and Ohio AGO for their respective AFIS replacement projects.

Please let me know when would be a good time in the near term for us to discuss this briefly by phone.

Thanks Joe,

/PS

Peter Sakkal

Senior Account Manager, Biometrics Solutions Division

NEC Corporation of America

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From: Sakkal, Peter

Sent: Thursday, January 19, 2017 9:22 AM

To: 'Perfetti, Joseph F.' <Joseph.Perfetti@chicagopolice.org>

Cc: Bazzano, Paul <Paul.Bazzano@necam.com>; Gangumalla, Vishnu <vishnu.gangumalla@necam.com>;
Dan.Lukas@necam.com

Subject: Thank You

Good morning Joe,

Thank you for making time for our visit yesterday.

It was good to see you again and our discussion was very enjoyable.

As requested, we will begin working on an update to the proposal provided in April 2015 for the upgrade of the current Chicago Police Department (CPD) AFIS.

As before, the proposed solution will comprise both the AFIS and integrated Archive components.

This revision, however, will include pricing for a full Continuity of Operations (COOP) solution in an "Active-Active" disaster recovery configuration.

Based on two solution delivery models—the traditional Outright Purchase; and, an *Identity as a Service* (IDaaS) offering— and per your direction, the latter will be further defined such that the Primary site is CPD hosted while the COOP site is NEC-hosted.

Indeed, this configuration is one of the solution alternatives requested by Michigan State Police within its current RFP exercise.

Lastly, as an option within both technical and commercial solution proposal scenarios, we will include an integrated facial recognition service based on our latest Integra-ID 5 multimodal biometric identification solution (MBIS) platform for your consideration.

As such, the proposed technical solution for CPD will be very similar to the Integra-ID MBIS system to be delivered to the Illinois State Police.

Please let me know if you have any questions or comments in respect to this approach.

Thanks, once again, Joe.

/PS

Peter Sakkal

Senior Account Manager, Biometrics Solutions Division

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From: Sakkal
Sent: Thursday, September 04, 2014 11:20 PM
To: Perfetti, Joseph F.
Cc: Lukas, Dan; Gangumalla, Vishnu; Uher, Greg
Subject: CPD Integra-ID AFIS & Archive Upgrade Budgetary Proposal
Attachments: CPD Integra-ID MBIS Upgrade Proposal FINAL 09.04.2014.pdf

Good morning Joe,

Per our recent discussions, please find attached NEC's budgetary proposal for an Integra-ID AFIS and Archive upgrade.

This commercial and technical proposal describes both a traditional solution delivery model, as well as the Identity as a Service (IDaaS) solution (to be hosted at CPD location) offering.

Once you have had a chance to review these details, I would welcome the opportunity to discuss any comments and or questions you may have.

As always, Joe, thank you your support of NEC and its biometric identification solutions.

Best...

/PS

Peter Sakkal | Senior Account Manager, Biometrics Solutions Division
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From: Filippi
Sent: Monday, April 28, 2014 10:39 AM
To: Filippi, Joseph
Subject: Facial Recognition Vendor Test (FRVT) Results Statement
Attachments: IAI FISWG.pdf

Hope you are all doing well. I wanted to share with you a report from the fall meeting of the Facial Identification Scientific Working Group (FISWG.) On the first page of this report, Patrick Grother of NIST is quoted regarding the most recent Facial Recognition Vendor Test (FRVT):

“Of the numerous vendors in the test, NEC’s algorithm showed a decrease in False Positive Identification Rate (FPIR) as database size increased. Overall, NEC’s algorithm showed the most improvement and displayed the best results.”

Please let me know if you would like any further information on our NeoFace Suite of Facial Recognition solutions. I look forward to speaking with you soon.

Thanks again,

Best regards,

Joe

Joe Filippi | Sr. Account Manager | Biometrics Solutions Division
NEC Corporation of America | www.necam.com |

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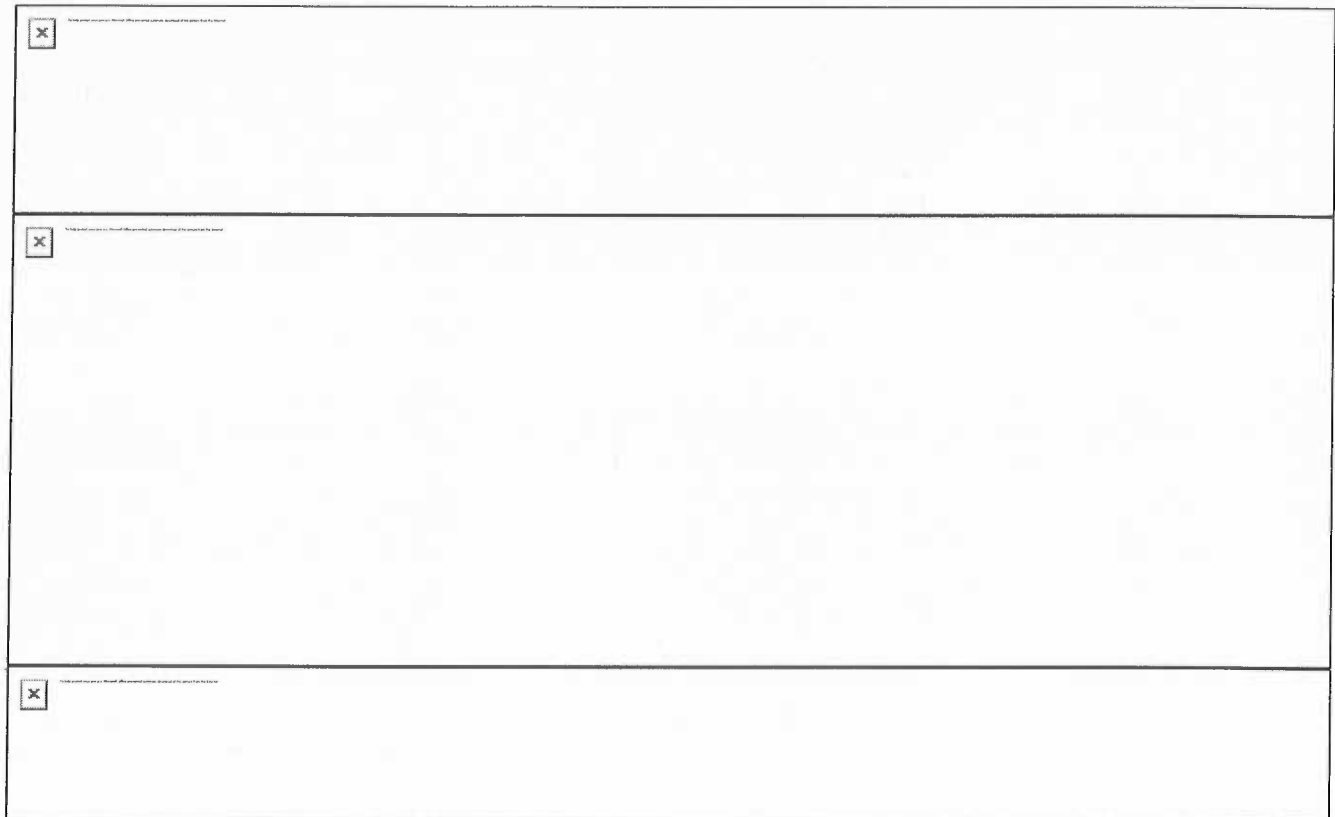
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From: NEC Biometrics Solutions <idsolutions@necam.com>
Sent: Tuesday, July 02, 2013 8:30 AM
To: Richardson, Janet D.
Subject: Free Report - A Case Study on Using Facial Recognition Technology to Identify the Boston Marathon Bombing Suspects by Michigan State University



A Case Study on Unconstrained Facial Recognition Using the Boston Marathon Bombings Suspects

Michigan State University (MSU) recently completed a study that validates accuracy and crime solving benefits of facial recognition technology and raises question of "What If?" this breakthrough technology had been used to identify the Boston Marathon bombings suspects.

The MSU study's focus was to examine the reliability of automated facial recognition (AFR) technology to assist law enforcement in identifying suspects in a simulation of the forensic work done after the Boston Bombings.

In the MSU simulation, researchers used actual law-enforcement video from the bombing and searched them against a background database of one million law enforcement booking images. They found that NEC's NeoFace® solution produced a match of suspect number two. The study concluded that the NEC NeoFace solution consistently registered highly accurate facial matching score in the simulation.

[Download the Report](#)

[Fine out more about NEC's NeoFace Solutions](#)

[Contact NEC to Learn More about the Facial Recognition Technology](#)

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From: Filippi
Sent: Thursday, June 20, 2013 4:26 PM
To: Lewin, Jonathan H.
Subject: FW: CPD NeoFace Reveal Proposal
Attachments: CPD_NeoFace Reveal Proposal with Agreement_ 2-19-2013.pdf

I will call you to discuss

Joe

From: Filippi, Joseph
Sent: Tuesday, February 26, 2013 1:02 PM
To: Joe Perfetti (Joseph.Perfetti@chicagopolice.org)
Cc: Filippi, Joseph
Subject: FW: CPD NeoFace Reveal Proposal

Joe,

Attached is the electronic version of the FR proposal we presented last week. After you review/confirm the assumptions, database size, etc., please advise and we can adjust the quote accordingly.

Please let me know if you have any questions.

Best regards,

Joe

Joe Filippi | Sr. Account Manager | Biometrics Solutions Division
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joseph.filippi@necam.com

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From: Filippi
Sent: Wednesday, June 19, 2013 12:52 PM
To: Filippi, Joseph
Subject: FW: NEC News Release: NEC NeoFace Facial Recognition Solution Identifies Boston Marathon Bombing Suspect in Michigan State Univ Simulation

I thought you might find this press release interesting as it relates to NeoFace Reveal, NEC's Facial Recognition solution.

Please email or call with any questions.

Thanks,

Joe



From: NECAM Corporate Communications
Sent: Wednesday, June 19, 2013 1:40 PM
To: NECAM Corporate Communications
Cc: Beroukhim, Raffie
Subject: NEC News Release: NEC NeoFace Facial Recognition Solution Identifies Boston Marathon Bombing Suspect in Michigan State Univ Simulation

Distribution: All NECAM & NECAM Subsidiary Employees

NEC Solution Identifies Boston Marathon Bombing Suspect in Simulation by MSU

MSU Study Validates Accuracy and Crime Solving Benefits of Facial Recognition Technology and Raises Question of "What If?" this Breakthrough Facial Processing Software had been applied to Solve Recent High Profile Incidents

Irving, Texas – June 18, 2013 – NEC Corporation of America ([NEC](#)), a leading provider and integrator of advanced IT, communications, managed services and biometric solutions, today announced its NeoFace® Facial Recognition Software solution achieved high accuracy in an independent study conducted by Michigan State University (MSU) and was able to identify a suspect from the recent Boston Marathon Bombing in the same study that simulated the post-bombing forensic work.

The MSU study's focus was to examine the reliability of automated facial recognition (AFR) software to assist law enforcement in identifying suspects in a simulation of the forensic work done after the Boston Bombings. Media reports of the post-Boston Bombing investigation created a common perception that facial recognition

technology is not always reliable because it apparently was not a factor in identifying the suspects. The published results of the MSU study challenge this perception.

In the MSU simulation, researchers used actual law-enforcement video from the bombing and searched it against a background database of 1 million law enforcement booking images. They found that the NEC NeoFace product produced a “rank one” identification—a match—of suspect number two.

“As conditions in the study were simulated to be representative of actual crime scene situations, including the limited, poor quality images available to the investigators of the Boston Marathon Bombings, the strong performance of the NEC solution is significant,” said Raffie Beroukhim, vice president of NEC’s Biometrics Solutions Division.

The MSU study found that the NEC NeoFace solution consistently registered highly accurate facial matching scores in the study’s simulation.

The MSU technical paper on evaluating automatic facial recognition technology can be accessed at: <http://www.cse.msu.edu/rgroups/biometrics/>

About NEC Corporation of America

Headquartered in Irving, Texas, NEC Corporation of America is a leading provider of innovative IT, network, communications and biometric products and solutions for service carriers, Fortune 1000 and SMB businesses across multiple vertical industries, including Healthcare, Government, Education and Hospitality. NEC Corporation of America delivers one of the industry’s broadest portfolios of technology solutions and professional services, including unified communications, wireless, voice and data, managed services, server and storage infrastructure, optical network systems, microwave radio communications and biometric security. NEC Corporation of America is a wholly-owned subsidiary of NEC Corporation, a global technology leader with a presence in 44 countries and more than \$37 billion in revenues. For more information, please visit www.necam.com.

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For More Information - NEC Media Contact:
Frank Puglia
NEC Corporation of America
214.262.3767
frank.puglia@necam.com

From: Filippi
Sent: Friday, July 05, 2013 4:20 PM
To: Filippi, Joseph
Subject: FW: NeoFace Solutions Webinar: Facial Recognition in Government - Making Cities Safer

Here is the information regarding the webinar on Facial Recognition, Tuesday, July 23rd (please check schedule below for your time zone.)

If you have any questions, please call me at 513-658-7403.

Best regards,

Joe

Joe Filippi | Sr. Account Manager | Biometrics Solutions Division
NEC Corporation of America | www.necam.com |

joseph.filippi@necam.com

10850 Gold Center Drive, Suite 200, Rancho Cordova, CA 95670 | M [REDACTED] | F 916.463.7040

NeoFace[®] Solutions Webinar

The Proven Leader at Turning Bad Images into Good Results.

NEC's latest advances in technology have established facial recognition as an effective and non-intrusive tool for identification. Large facial databases are searched quickly and accurately as independent testing confirmed that NeoFace technology is the most resistant to variants in age,

Date & Time

July 23, 2013
1 pm - 2 pm, EST
12 pm - 1 pm, CST
10 am - 11 am, PST

race and pose angle.

In the real world, crime scene images are often blurry and of low quality. NEC's advances in facial recognition technology are now turning this previously unusable footage into hard evidence.

NeoFace Solutions produces more matches from poor quality images than any other facial recognition solution. Independent testing confirms that NeoFace technology is the most resistant to variants in aging, race and pose angle.

Join NEC at the Facial Recognition Technology Webinar!

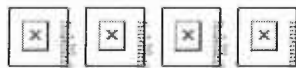
What You Will Learn

- Introduction to Facial Recognition
- Advancements in Facial Recognition
- NIST Test Results & Recent Case Studies
- NeoFace® Reveal – Investigative Application Demo
- NEC Product Suite Overview

Who Should Attend

- Investigators
- Crime Lab Personnel
- Records Personnel
- IT Personnel
- Supervisors & Managers

Space is limited. Sign up now!



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From: Filippi
Sent: Thursday, June 20, 2013 4:32 PM
To: Lewin, Jonathan H.
Subject: FW: RE: Recent NIST MBE Facial Recognition Test Results
Attachments: PA Chiefs Case Study.pdf

Jonathan,
Here is the PA press release.....NEC algorithm, and they bought it thru our reseller, DataWorks.

Call if you need more.

Joe

From: Filippi
Sent: Thursday, February 13, 2014 11:50 AM
To: Filippi, Joseph
Subject: FW: Webinar: Gain Greater Mobility & Productivity with Field-proven Identification

Please mark your calendar for March 5th for this webinar on the NeoFace Smart ID. You can register below.
Please let me know if you have any questions.

Have a great day!

Best regards,

Joe

Joe Filippi | Sr. Account Manager | Biometrics Solutions Division
NEC Corporation of America | www.necam.com |

joseph.filippi@necam.com

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From: NEC [mailto:IDSolutions@necam.com]
Sent: Wednesday, February 12, 2014 10:33 AM
To: Filippi, Joseph
Subject: Webinar: Gain Greater Mobility & Productivity with Field-proven Identification



Webinar: Gain Greater Mobility & Productivity with Field-proven Identification

Date: Wednesday, March 5, 2014
Time: 11am PST

[Register Now](#)

In response to the advancement, proliferation, and widespread adoption of smartphone and tablet devices, NEC has developed mobile solutions to support law enforcement, public safety, and security agencies with their field operations.

NEC's NeoFace® Smart ID is a suite of mobile software applications for biometric capture that can be used to rapidly identify suspects and victims in the field as well as collect crime scene evidence to help investigators solve crimes.

The NeoFace® Smart ID solution suite is the most accurate fingerprint and facial recognition software available today, as independently tested by the U.S. National Institute of Standards and Technology (NIST). Recent NIST facial evaluation demonstrated that NEC's NeoFace solution provides the fastest matching capability while remaining resistant to variants in angle, age, gender, and race.

Highlights:

- Multi-modal biometric capture, including face, finger, and voice
- Latent capture and processing for field identification
- Local watch list capability on the device
- Local and remote biometric search
- Available Credential Reading, including Driver's License, Barcode, and Magnetic Stripe

[Sign up](#) for the Webinar to learn how NEC's NeoFace Smart ID solution can benefit your organization.



MEET THE SPEAKER



John Dowden
Senior Product Manager
Biometrics Solutions Group
NEC Corporation of America





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From: Price
Sent: Thursday, January 23, 2014 8:03 AM
To: Nelligan; Ryan J.; Bazarek; William
Subject: Fwd: Morocco National Police

Ralph Price

Begin forwarded message:

From: "Lewin, Jonathan H." <Jonathan.Lewin@chicagopolice.org>
Date: January 23, 2014 at 6:19:17 AM CST
To: "Price, Ralph M." <Ralph.Price@chicagopolice.org>, "Nelligan, Ryan J." <Ryan.Nelligan@chicagopolice.org>
Subject: Fwd: Morocco National Police


Sent from my iPhone

Begin forwarded message:

From: "Raderschadt, Keith" <Keith.Raderschadt@necam.com>
Date: January 23, 2014 at 4:20:47 AM CST
To: "Lewin, Jonathan H." <Jonathan.Lewin@chicagopolice.org>
Subject: Morocco National Police

Commander Lewin,

We have been asked to provide reference accounts for a face recognition system procurement NEC is bidding in Morocco for their National Police. Would you be able to be a reference for NeoFace for this procurement? If so please provide responses to the section in red listed below. As always, I/we are very thankful to you for all you do for us in promoting NeoFace and latent face activities both here in the US and around the globe.

We have also given your contact information to individuals in the Arizona Fusion Center for an informal discussion on your use of NeoFace in your latent face system and I believe they will be in contact with you soon. We thank you in advance for your taking the call and supporting NeoFace.

<Tender Details (for your information)>

*Tender Name: Purchase of a Complete Solution of Face Recognition and its Establishment at the National Police Department *RFP issued by: Morocco MOI, National Police Dept, Equipment and Budget Division
*RFP issued date: Dec 28, 2013 *Use of face recognition for NID application and investigation purpose (database size: 25M records)
*RFP deadline: Feb 20, 2014

<"Preferred" Information to be mentioned on Project Reference Certificate> Free format is OK.

Please state that "the system is approved and operational".

*Project name:

*Nature of service (purpose):

*Project amount:

*Date of implementation:

*Date of operation:

*Customer signature (with position of signer)

Best regards.

Keith

Keith Raderschadt | NeoFace Business Development Manager | Biometrics Solutions Division
W4549 Woodview Lane, Elkhorn, WI 53121 | P 262.742-5093 | M [REDACTED] F 262.742-5094
<mailto:keith.raderschadt@necam.com> | www.necam.com

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From: Filippi
Sent: Wednesday, July 10, 2013 7:40 AM
To: Lewin, Jonathan H.
Subject: Fwd: Recent NIST MBE Facial Recognition Test Results

Here is the contact info for PA

Sent from my iPhone

Begin forwarded message:

From: "Raderschadt, Keith" <Keith.Raderschadt@necam.com>
Date: July 10, 2013, 8:33:19 AM EDT
To: "Filippi, Joseph" <Joseph.Filippi@necam.com>
Subject: Re: Recent NIST MBE Facial Recognition Test Results

Joe,

Send him Harry' Giordano's contact information.

(717) 214-7474
c-hgiordan@pa.gov

Keith Raderschadt
NeoFace Business Development Manager
(262) 742-5093 Office
[REDACTED] Mobile
Sent from my iPhone

On Jul 10, 2013, at 8:28 AM, "Filippi, Joseph" <Joseph.Filippi@necam.com> wrote:

I sent him PA Jnet
Any others?

Sent from my iPhone

Begin forwarded message:

From: "Lewin, Jonathan H." <Jonathan.Lewin@chicagopolice.org>
Date: July 10, 2013, 8:15:01 AM EDT
To: "Filippi, Joseph" <Joseph.Filippi@necam.com>
Subject: RE: Recent NIST MBE Facial Recognition Test Results

Do you have a list of other customers (ideally large police depts or law enforcement) who use NeoFace and anyone I can call for some feedback on success stories this morn? (Or if you have any other success stories...) Thx

Cmdr Jonathan H. Lewin
Managing Deputy Director
Public Safety Information Technology
Chicago Police/ OEMC

Voice: 312-746-9205
Facsimile: 312-745-6990
24 Hr Help Desk: 312-744-DATA

www.ChicagoPolice.org

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From: Lewin, Jonathan H.
Sent: Tuesday, July 09, 2013 4:17 PM
To: Filippi, Joseph
Subject: RE: Recent NIST MBE Facial Recognition Test Results

SunTimes possibly tomorrow

Cmdr Jonathan H. Lewin
Managing Deputy Director
Public Safety Information Technology
Chicago Police/ OEMC

Voice: 312-746-9205
Facsimile: 312-745-6990
24 Hr Help Desk: 312-744-DATA

www.ChicagoPolice.org

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From: Filippi, Joseph [Joseph.Filippi@necam.com]
Sent: Monday, July 08, 2013 9:50 AM
To: Lewin, Jonathan H.
Subject: RE: Recent NIST MBE Facial Recognition Test Results

Jonathan,
Hope you had a great holiday weekend.
Just checking to see if the interview took place, and if so, what media outlet?

Thanks
Joe

From: Lewin, Jonathan H. [<mailto:Jonathan.Lewin@chicagopolice.org>]
Sent: Thursday, June 20, 2013 7:56 PM
To: Filippi, Joseph
Subject: Re: Recent NIST MBE Facial Recognition Test Results

Newspaper but we may not be doing it, there was another focus. Can talk tomorrow.

Sent from my iPhone

On Jun 20, 2013, at 6:51 PM, "Filippi, Joseph"
<Joseph.Filippi@necam.com> wrote:

Jonathan,
How did the interview go? Was it a newspaper or TV?

Thanks
Joe

From: Lewin, Jonathan H.
[<mailto:Jonathan.Lewin@chicagopolice.org>]
Sent: Thursday, June 20, 2013 5:44 PM
To: Filippi, Joseph
Subject: Re: RE: Recent NIST MBE Facial Recognition Test Results

Thanks

From: Filippi, Joseph
[<mailto:Joseph.Filippi@necam.com>]
Sent: Thursday, June 20, 2013 04:31 PM
To: Lewin, Jonathan H.
Subject: FW: RE: Recent NIST MBE Facial Recognition Test Results

Jonathan,
Here is the PA press release.....NEC algorithm, and they bought it thru our reseller, DataWorks.

Call if you need more.

Joe

From: NEC <idsolutions@necam.com>
Sent: Wednesday, October 04, 2017 9:30 AM
To: West, Barbara J.
Subject: Interested in solving crimes faster? See NEC's NeoFace® in action at the IACP Conference



Dear Barbara,

This year, NEC's Advanced Recognition Systems is a platinum sponsor at the IACP Conference 2017. Visit us in **Independence Ballroom III** at the Marriott (connecting to the Convention Center) to learn how NEC's Advanced Recognition Systems solutions can help you and your agency.

Whether in the field, at the crime scene, in the crime lab or in the office, the unparalleled and unsurpassed identification matching accuracy and speed of our facial recognition and fingerprint solutions provide the technology-based partnership required for accurate real-time and post-event investigations.

We invite you to **schedule a personalized demo or solution overview** with one of our subject matter experts so you can learn about how we are innovating in the biometrics sector and what successes we've had supporting our law enforcement clients.



Also, please join John Dowden's **Biometrics and Video Analytics Workshop** on Monday, October 23 at 1pm in room 105AB. As part of this workshop, John will explain and demonstrate the latest biometric and video analytic technologies that can be utilized to render advanced recognition systems.

We look forward to seeing you in Philadelphia at the IACP Conference!

Best regards,
The NEC Advanced Recognition Systems Team



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www.necam.com

[Unsubscribe](#)



From: Filippi
Sent: Wednesday, December 04, 2013 4:46 PM
To: Lewin, Jonathan H.; Perfetti, Joseph F.
Cc: Filippi, Joseph
Subject: Invitation to Visit NEC's Hosted Solution
Attachments: CPD RC Invitation Letter 2013-12-04.docx

Commander Lewin and Director Perfetti,

On behalf of Raffie Beroukhim, I am pleased to send you the attached invitation letter to see our hosted solution at the NEC offices in California. I know personally I would like to also get out of the Midwest winter weather for a couple days! Please advise if the window of time from Feb 10-21 works for you (a day or day and a half of meetings should be sufficient.)

Looking forward to seeing you soon.

Thanks,

Best regards,

Joe

Joe Filippi | Sr. Account Manager | Biometrics Solutions Division
NEC Corporation of America | www.necam.com |

joseph.filippi@necam.com

10850 Gold Center Drive, Suite 200, Rancho Cordova, CA 95670 | M [REDACTED] | F 916.463.7040

From: Raderschadt
Sent: Thursday, January 23, 2014 4:21 AM
To: Lewin, Jonathan H.
Subject: Morocco National Police

Commander Lewin,

We have been asked to provide reference accounts for a face recognition system procurement NEC is bidding in Morocco for their National Police. Would you be able to be a reference for NeoFace for this procurement? If so please provide responses to the section in red listed below. As always, I/we are very thankful to you for all you do for us in promoting NeoFace and latent face activities both here in the US and around the globe.

We have also given your contact information to individuals in the Arizona Fusion Center for an informal discussion on your use of NeoFace in your latent face system and I believe they will be in contact with you soon. We thank you in advance for your taking the call and supporting NeoFace.

<Tender Details (for your information)>

*Tender Name: Purchase of a Complete Solution of Face Recognition and its Establishment at the National Police Department *RFP issued by: Morocco MOI, National Police Dept, Equipment and Budget Division *RFP issued date: Dec 28, 2013 *Use of face recognition for NID application and investigation purpose (database size: 25M records) *RFP deadline: Feb 20, 2014

<"Preferred" Information to be mentioned on Project Reference Certificate> Free format is OK. Please state that "the system is approved and operational".

*Project name:

*Nature of service (purpose):

*Project amount:

*Date of implementation:

*Date of operation:

*Customer signature (with position of signer)

Best regards.

Keith

Keith Raderschadt | NeoFace Business Development Manager | Biometrics Solutions Division
W4549 Woodview Lane, Elkhorn, WI 53121 | P 262.742-5093 | M [REDACTED] | F 262.742-5094
<mailto:keith.raderschadt@necam.com> | www.necam.com

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From: Sakkal
Sent: Tuesday, November 04, 2014 1:08 PM
Subject: NEC Biometrics Making News Again!
Attachments: Bexar County Press Release Final 10-31-14.pdf; Calgary Press Release Final 10-31-14.pdf

Good day to all,

I hope that this note finds you everyone very well.

It is with a great deal of pride I share with you two timely and relevant press releases (please see attached) in respect to recent activity involving NEC's Biometrics Business Solutions Division:

Bexar County Sheriff's Office Selects NEC Multimodal Identification Biometric Solution

Law Enforcement Agency of One of the Nation's Largest Counties Selects Proven, Innovative Industry-Leading Biometric Solution

Beginning (alphabetically) with Bexar County (TX) Sheriff's Office (BCSO), we announced that our Integra-ID™ Multimodal Biometric Identification System (MBIS) solution was formally selected to replace the existing Automated Fingerprint Identification System (AFIS). As the fourth largest county in Texas, home to San Antonio, and one of the top 20 largest counties nationally, BCSO was seeking to secure the future safety and security of its residents by acquiring an MBIS solution with the best technology, best value, and lowest risk proposition. BCSO selected NEC after a thorough, open and highly competitive Request for Proposal (RFP) solicitation for this new leading multimodal technology solution.

Calgary Police Service Selects NEC Biometric Solution

NEC NeoFace® Facial Recognition is Tops in Comprehensive Open RFP Process

Closer to my home, we also announced that our NeoFace® Reveal facial recognition solution was selected by the City of Calgary, Canada, and the Calgary Police Service (CPS). CPS awarded NEC the contract after a rigorous review process of facial recognition based criminal identification systems. This open RFP procurement for a facial recognition-based criminal identification system makes CPS the first law enforcement agency in Canada to obtain an automated facial recognition system.

Please feel free to share these updates within your organization and associates, as well as contact me if you have any questions or comments.

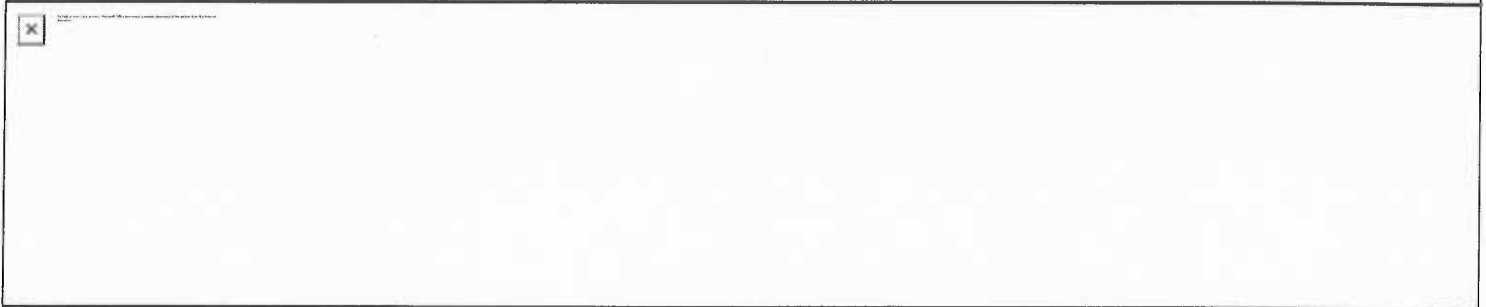
Thanks and best...

/PS

Peter Sakkal | Senior Account Manager, Biometrics Solutions Division
555 Legget Dr., Suite 304, Kanata, ON, Canada K2K 2X3 | P 613.569.4983 | M () F 613.287.0451
peter.sakkal@necam.com | www.necam.com

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From: NEC Biometrics <idsolutions@necam.com>
Sent: Friday, April 10, 2015 10:45 AM
To: Richardson, Janet D.
Subject: NEC Biometrics Newsletter – April 2015



»Just Announced: NeoScan 45™

»First (Again) in NIST Tests

»Kinect System with NEC
Biometrics

»Western Identification Network
System Accepted

»New Customer Wins!

»NEC Presented at IJIS Institute
Event



»Las Vegas Metropolitan
Police Department Selects
NEC Multimodal Biometric
Identification Solution
»NEC Announces Release of
NeoScan 45™ Industry's
Thinnest and Lightest Multi-
fingerprint Capture Device

Just Announced: NeoScan 45™

Operational Simplicity.
Elegant Design.
Unmatched Accuracy.



Designed for public safety applications in the field, NeoScan 45™ delivers the highest degree of speed and accuracy for both roll and slap fingerprint capture, including simultaneous two-finger capture. As the thinnest and lightest FAP 45 multi-fingerprint capture device available, the innovative NeoScan 45™ – now FBI certified – is packed with high-performance features. An intuitive interface makes it easy to capture fingerprints for rapid identification and field booking. Support of Bluetooth and Wi-Fi connectivity, as well as Apple® iOS and Andriod® operating systems, provide extraordinary flexibility in integrating and operating the device. [Learn more]

First (Again) in NIST Tests

NEC's fingerprint identification technologies ranked #1 in the Fingerprint Vendor Technology Evaluation (FpVTE 2012 or FpVTE) conducted by the U.S. National Institute of Standards and Technology (NIST). This is the *second consecutive time* NEC technology is ranked as the best in large-scale ten-finger identification tests conducted by NIST¹.

- »Los Angeles County Sheriff's Department Selects NEC Multimodal Identification Biometric Solution
- »NEC Biometric Solution Selected by San Bernardino and Riverside Cal-ID
- »Western Identification Network (WIN) System Accepted
- »Calgary Police Service Selects NEC Biometric Solution
- »Bexar County Sheriff's Office Selects NEC Multimodal Identification Biometric Solution

FpVTE 2012 tested accuracy on search, identity confirmation, and other tasks. The testing fingerprint database included 5 million sets of fingerprint data, the largest database in the NIST's benchmark testing history. NEC achieved top ranking in the ten-finger identification tests, producing the best fingerprint matching results among the 18 companies participated in the testing. [Learn more]

1. Results shown from the Fingerprint Vendor Technology Evaluation (FpVTE 2012) do not constitute endorsement of any particular system by the U. S. Government. <http://dx.doi.org/10.6028/NIST.IR.8034>.
http://biometrics.nist.gov/cs_links/fpvtc/report/ir_7123_analysis.pdf

Kinect System with NEC Biometrics

Anheuser-Busch hosted a refreshment lounge during Super Bowl XLIX with a Kinect v2 sensor equipped with NEC NeoFace® facial recognition technology. Developed by NEC and Microsoft, this new breed of interactive retail system can identify the approximate age, gender, and total headcount of customers.

Patrons were presented onscreen beverage options. Once they made their choices, the screen displayed data of the most popular beverages in relation to the age and gender demographics of visitors that day. Customers enjoy a personalized shopping experience, and retailers gain invaluable backend demographic and engagement data. Able to recognize previous customers, retailers can present promotions that relate to customers' past purchases. In January, the system was also displayed at the National Retail Federation's annual conference in New York City. [Read article]

Western Identification Network System Accepted

A consortium of western U.S. state and local law enforcement agencies, the Western Identification Network (WIN), accepted NEC's Integra-ID 5 MBIS to upgrade their current network system. Several phases of rigorous testing resulted in NEC securing the contract, including Factory Acceptance Test, System Acceptance Test at each of the eight WIN Member States, and a User Acceptance Test.

According to Ken Bischoff, CEO of WIN, "NEC's project management methodology facilitated a successful, on-time and on-budget implementation, leading to a unanimous vote in favor of system acceptance."

The WIN network shared MBIS processing service bureau provides the ability to search the criminal and civil biometrics records of its member

Border Security Expo
April 21 -22
Phoenix, AZ

ALEAN
April 20 -22
Arlington, VA

International IAI
August 2-8
Sacramento, CA

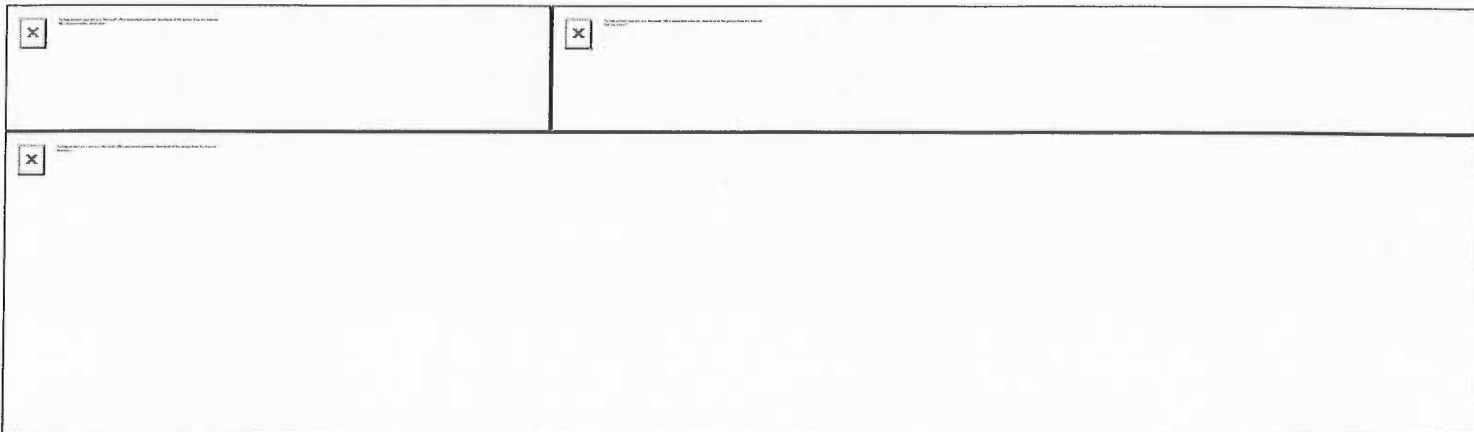
AAMVA
August 25-27
Des Moines, IA

AFIS Internet Conference
August 30-September 2
Manhattan Beach, CA

- »NIST Validation
- »Brochures, Case Studies & White Papers
- »www.necam.com/biometrics



From: NEC Biometrics <idsolutions@necam.com>
Sent: Thursday, May 26, 2016 9:52 AM
To: Green, Marveta
Subject: NEC Biometrics Newsletter - May 2016



»Raffie's Message

- »Save the Date: 30th AFIS Internet User's Conference
- »New NEC Office in Nation's Capital
- »2000 Cold Cases – Solved!
- »Mobile ID for Border Control
- »NEC Strengthens NeoFace with Dr. Anil Jain
- »JFK Airport Adopts NEC Facial Comparison Technology
- »CrimTrac Selects NEC to Deliver BIS
- »Powerful Biometric Solutions for Manufacturing & Retail
- »NEC Contributes to Irving Family Advocacy Center
- »New Additions to the NEC Biometrics Family

Raffie's Message

Dear Friends and Colleagues:



Since our last newsletter, and as indicated below, it has been a busy few months for us here at NEC. Our Biometrics Center of Excellence supported the NEC Australia bid for CrimTrac, which led to an award announced earlier this month. This is an identical platform to our implementations in North America which are experiencing great success and increased hit rates as witnessed by the Western Identification Network.

The next few months will also be exciting for us. We look forward to celebrating the 30th anniversary of the AFIS Internet User's Conference; obviously a significant milestone of partnership and collaboration with our user community. We also look forward to the IAI Conference where we will continue to introduce new innovative products and services. If you are in the neighborhood, please stop by our booth. Finally, after months of planning, our new Washington, D.C. office is operational. This office will lead all of NEC's identity management and biometrics implementations for the Federal government.

I look forward to seeing you at these conferences, and as always I thank you for your continued patronage and support.



Texas IAI
Galveston, TX

International IAI
Cincinnati, OH

AAMVA 2016 Annual
International Conference
Williamsburg, CA

NEC Annual AFIS User
Conference 2016
Atlanta, GA

Global Identity Summit
Tampa, FL



»NIST Validation

»Brochures, Case Studies &
White Papers

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(800) 777-2347
IDSolutions@necam.com



Save the Date: 30th AFIS Internet User's Conference August 28-31, 2016 Atlanta, GA



Don't miss this special opportunity to celebrate the 30th anniversary of the AFIS Internet User's Conference. This long-standing tradition of training, education and comradery brings together a diverse group of identification professionals engaged in applications of biometric technologies. Once solely focused on fingerprint identification, the conference today covers all aspects of facial recognition, iris matching and other modalities, such as voice and DNA. These solutions – deployed at the local, state, national and international levels – address a wide range of public safety and security needs. Register today!

New NEC Office in Nation's Capital

NEC established a new identity solutions office in Washington, D.C. to enhance collaboration and support for government customers. The new D.C. office extends the value of NEC's identity technology headquarters and Biometric Center of Excellence – a showcase for NEC's latest identity and biometric products – in Rancho Cordova, near Sacramento, California.

See Pictures from the Opening

Mr. Shinsuke Takahashi, president and CEO of NEC Corporation of America, commented, "Staffed with engineering, project management and our targeted, U.S.-Federal focused go-to-market teams, this office will be critical for servicing our D.C.-based customers, such as the Department of Homeland Security and Department of Defense, as well as pursuing new opportunities." [Learn More]

2,000 Cold Cases – Solved!

Using NEC's award-winning Integra-ID® 5 latent fingerprint matching technologies, the Western Identification Network (WIN) state and local law enforcement agencies have reported measurably elevated latent fingerprint and palm print hit rates. Integra ID 5 was used to re-examine evidence in cold cases throughout the 8 member states of WIN. Within 18 months, the superior





From: Raffie Beroukhim <raffie.beroukhim@necam.com>
Sent: Tuesday, October 07, 2014 9:17 AM
To: Green, Marvetta
Subject: NEC Biometrics Newsletter – October 2014

Share this with others:



- » Message from Raffie
- » AFIS Internet Conference In Review
- » New NEC Biometrics Center of Excellence
- » NEC Ranks 1st in NIST Fingerprint Matching (Again!)
- » Facial Recognition in the News



- » NEC Ranks First in NIST Fingerprint Matching Technology Benchmark Test
- » NEC's Face Recognition Technology Ranks First in NIST Testing for Third Consecutive Time

Message from Raffie

Hello, everyone. With the summer behind us now, we look forward to Halloween, Thanksgiving (my favorite holiday of the year) and Christmas. We welcome again the wind, the cold, and the changing of the colors.

Looking back, summer of 2014 was an exciting and enjoyable season for NEC Biometrics. For one, I'm proud of our 2014 AFIS Internet Users' Conference which turned out to be a valuable information and networking event. I would like to express my sincere thanks and appreciation to the people who joined us at AFIS Internet. For those whom we look forward to welcoming next year, here is a brief video of what you can anticipate.

This summer, and as promised, we opened the NEC Biometrics Center of Excellence at the NEC office near Sacramento, California. The NEC Biometrics Center of Excellence serves as a highly secure environment for NEC's U.S.-based Customer Support Center, the Identity-as-a-Service hosting data center, as well as topnotch demonstration and training environment. The Center of Excellence is also designed to connect our customers and partners directly with NEC's latest biometric identification



Gartner Symposium ITxpo
Oct 5-9, Orlando

IBM Insight
Oct 26-30, Las Vegas

Florida and Georgia Divisions
of the IAI
Oct 26-30, Panama City
Beach, FL

Tri-Division Educational
Conference
Nov 3-6, Tempe, AZ

National Fusion Center
Association Conference
Nov 4-6, Alexandria, VA

New England Division IAI
Nov 17-19, Portland, ME



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and management technologies in simulated environments. Please give us a shout if you are in the neighborhood, we are excited to show the new facility to you! In the meantime, here is a virtual tour of the NEC Biometrics Center of Excellence.

The more things change – the more they stay the same. NIST's latest fingerprint matching results, once again, acknowledged NEC technology as the top ranking in Proprietary Fingerprint Template Test (PFT II) benchmark.

I am also pleased to share our continued successes in the market, gaining renewed trust of our long-term customers, as well as new clients. Many thanks to the Arizona Department of Transportation, Calgary Police Service, Philadelphia Police Department, and Texas Department of Public Safety for choosing NEC to provide the latest fingerprint matching and facial recognition technologies.

In parallel, and customary of every season, we welcome the winds of change and look forward to further opportunities to connect and collaborate (you may have seen NEC at the ASIS Conference), and to deliver the best biometrics-enabled solutions to you.

Thank you for being on the journey with us.



Raffie

AFIS Internet Conference In Review

Information-packed conference sessions, collaborative workshops, and personalized networking opportunities at the 2014 AFIS Internet Conference in Salt Lake City were described by attendees as "worth its weight in gold." This annual event leveraged the knowledge of recognized subject matter experts and experienced practitioners to provide tips and insight into maximizing the effectiveness of their biometrics systems.

The NEC exhibit hall showcased solutions that address a wide range of public safety and security needs. The unparalleled speed and accuracy of NEC's MBIS was on display, as well as facial recognition technology





From: Harsley
Sent: Monday, October 17, 2016 7:15 PM
To: Perfetti, Joseph F.
Subject: NEC Corporation's meeting with Chicago Dept. of Aviation on our NeoFace facial recognition system and their request for other NEC users within the City of Chicago

Hello Joe

I work in the sales dept. at NEC Corporation's Enterprise Solutions Division and am working with a number of major US airports on deployments of NEC's NeoFace facial recognition system. I met with Chicago Dept. of Aviation last week and they expressed interest in evaluating the system further and also asked what other business NEC has with the City of Chicago.

I was given your names as a contact within Chicago PD s who uses both NEC's AFIS and NeoFace facial recognition system and wanted to give you a heads up on providing your contact information to Chicago Dept. of Aviation (Diego Ferrer, Managing Deputy Commissioner of IT and Telecommunications and members of his team) as a means for them to independently validate NEC's technology and services (I tried to call you to discuss this and spoke to one of your colleagues who said this wouldn't be a problem as they're also part of City of Chicago.)

Thanks in advance for your help on this and please let me know if you have any questions or require further information.

Best Regards,

Martyn A Harsley

Enterprise Account Manager

NEC Corporation of America

O: 214.262.6910 | M: [REDACTED]



Orchestrating a brighter world

NEC

From: Sakkal
Sent: Friday, August 22, 2014 9:49 AM
Subject: NEC Ranks First in NIST (PFT II) Fingerprint Matching Technology Benchmark Test
Attachments: NEC's Face Recognition Technology Ranks First in NIST Testing for 3rd Co... (77.1 KB)

Yup, per the recent release (<http://www.necam.com/About/read.cfm?ID=da00c434-c47b-4268-b8c2-d74c6d7e73bb>), we did it again!

NEC's fingerprint identification technology has garnered the top place for matching accuracy in the *Proprietary Fingerprint Template Test (PFT II)*, a benchmark test conducted by the U.S. National Institute of Standards and Technology (NIST) to measure performance of fingerprint matching software by utilizing vendor proprietary fingerprint templates.

In the *PFTII*, NEC ranked number one in the evaluation test by achieving a 99.47% match rate on average, providing definitive proof of the superiority of NEC's technology.

Thanks to the enhanced noise removal algorithm, NEC succeeded in accurately matching even low-quality fingerprints used for the NIST tests, which usually resulted in matching errors when using previous technologies, making highly accurate personal identification a reality.

Most notable is that NEC outperformed the second place vendor by 20.2% and 21.8% on average in 1-finger and 2-finger configurations.

And, for those of you that may have missed the recent *Face Recognition Vendor Test (FRVT) 2014* conducted by NIST, in which once again and for the third consecutive instance, NEC's NeoFace face recognition technology achieved the highest performance evaluation, I have for your information attached that update as well.

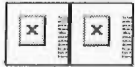
Happy weekend everyone!

/PS

Peter Sakkal | Senior Account Manager, Biometrics Solutions Division
555 Legget Dr., Suite 304, Kanata, ON, Canada K2K 2X3 | P 613.569.4983 | M [REDACTED] | F 613.287.0451
peter.sakkal@necam.com | www.necam.com

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From: Raffie Beroukhim <raffie.beroukhim@necam.com>
Sent: Monday, September 15, 2014 10:37 AM
To: Mc Mullen, Jesse C.
Subject: NEC: Sorry We Missed You at AFIS Internet Conference 2014



September 5, 2014

Dear Jesse,

Sorry we missed you at the 2014 Annual AFIS Internet Conference in Salt Lake City.

It was a wonderful and productive week, highlighted by presentations from a well-balanced mix of recognized subject matter experts and experienced practitioners as well as several memorable off-site experiences that were enjoyed by all.

The conference also included the NEC exhibit hall, which showcased solutions that addressed a wide range of public safety and security needs. Highlights included NEC's automatic fingerprint identification system as well as face technology solutions NeoFace Watch and NeoFace.

For a peek at some of this year's conference activities, check out NEC's social media channels. Look for hashtag [#afis14](#) on Twitter as well as [NEC's Facebook page](#). Also visit these sites to see more photos and videos from the conference:

Wrap-up video - <http://goo.gl/esZG2U>

Thank you for your interest in NEC biometric solutions and hope to see you next year.

Best regards,



Raffie Beroukhim
Vice President of the NEC Biometrics Solutions Division



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From: Sakkal
Sent: Tuesday, July 15, 2014 3:38 PM
To: Sakkal, Peter
Subject: NEC's Face Recognition Technology Ranks First in NIST Testing for 3rd Consecutive Time!
Attachments: FINAL 2014 NIST PressRelease v14_july 15 2014.pdf

Good afternoon all:

Please see attached our press release regarding the 'best-in-class' performance of NEC's NeoFace facial recognition technology in the recent *Face Recognition Vendor Test (FRVT) 2014*, conducted by the *U.S. National Institute of Standards and Technology (NIST)*.

Once again and for the third consecutive instance, NEC's NeoFace face recognition technology achieved the highest performance evaluation. The NIST report is widely viewed as the benchmark for determining which face recognition software solution is the most accurate for one-to-many searching under a variety of situations.

This most recent FRVT test for one-to-many searching (class C) evaluated the accuracy of database enrollments and personal identity searches using massive volumes of face image data (over 1.6 million people), including multiple "high quality" criminal mugshots, "low quality" webcam snap shots, and "standard quality" passport/visa photo images. NEC's face recognition algorithms were also faster than all participating vendors.

NEC's NeoFace technology took first place for the third consecutive time following the 2009 Multiple Biometric Grand Challenge (MBGC 2009) and 2010-2011 Multiple Biometrics Evaluation (MBE 2010-2011).

These results were released in NIST's *Interagency Report - NISTIR 8009 - Performance of Face Recognition Algorithms* (http://biometrics.nist.gov/cs_links/face/frvt/frvt2013/NIST_8009.pdf).

Please feel free to contact me if you have any comments or questions in respect to NeoFace or any one of NEC's world-leading biometric identification solutions.

Thank you,

/PS

Peter Sakkal | Senior Account Manager, Biometrics Solutions Division
555 Legget Dr., Suite 304, Kanata, ON, Canada K2K 2X3 | P 613.569.4983 | M [REDACTED] F 613.287.0451
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From: Sakkal
Sent: Thursday, July 16, 2015 5:39 PM
Subject: NEC to Provide Facial Recognition Systems for 14 International Airports in Brazil
Attachments: NeoFace Watch Brazil Press Release 07-16-15.pdf

Hello to everyone. I hope that this note finds you all doing very well and enjoying summer.

I am very pleased to share with you that NEC Corporation today announced its selection by the *Receita Federal* (Brazilian National Tax Collection Agency) to provide NeoFace® Watch facial recognition technology for 14 international airports throughout Brazil, including the major hub of *Governador André Franco Montoro International Airport* (Guarulhos Airport) in Sao Paolo and *Antônio Carlos Jobim International Airport* (Galeão Airport) in Rio de Janeiro, in order to enhance the effectiveness and efficiency of customs procedures.

NEC's NeoFace® Watch solution enables automatic facial recognition through photos, CCTV images, recorded videos and webcams. It can be applied across a wide range of businesses to identify people both for security purposes and in customer relationship management, positioning itself as a flexible platform that aims to meet the needs of companies and governments alike.

For this project, NEC will deliver facial recognition systems that consist of NeoFace® Watch software, CCTV cameras, servers and network infrastructure, as well as integration services for *Receita Federal's* existing systems and maintenance services.

Please feel free to contact me should you have any questions in this regard.

Happy weekend everyone!

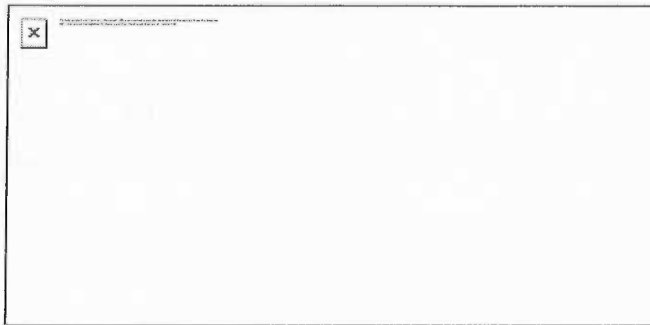
/PS

Peter Sakkal | Senior Account Manager, Biometrics Solutions Division
555 Legget Dr., Suite 304, Kanata, ON, Canada K2K 2X3 | P 613.569.4983 | M [REDACTED] F 613.287.0451
peter.sakkal@necam.com | www.necam.com

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From: NECToday News <news@nectoday.com>
Sent: Friday, June 02, 2017 4:45 AM
To: Parages, Michael R.
Subject: NECToday: NEC Advanced Recognition Systems Launches NeoFace Express at Connect:ID

Display problems? [View this newsletter in your browser.](#)



NEC Advanced Recognition Systems Launches NeoFace® Express at Connect:ID

The connect:ID Conference and Exposition held May 1-3 at the Walter E. Washington Convention Center in Washington D.C. has grown in size and significance as governments, the private sector, and consumers, increasingly realize the importance of secure identity recognition solutions. The three-day event drew together the world's leading minds and offered end users practical advice, examined current government policies, and provided ...

[Read more.](#)

Diving Deep: How Advantages of Infrastructure as a Service Solutions Spread through the Enterprise



As cloud computing has rapidly become mainstream, more and more companies understand the value that it brings to their organizations overall. Even the most cautious and conservative

of companies are turning toward cloud computing, particularly private clouds, which address potential security risks, lack of control issues, and offer an alternative to the public cloud. Private cloud solutions such as Infrastructure ...

[Read more.](#)



Fast, High-Accuracy Facial Recognition will be Best for Executive Ordered Biometric

Entry-Exit Tracking

In early March of this year, President Trump released a revised version of a previously released Executive Order titled "Protecting the Nation from Foreign Terrorist Entry into the United States." Section 8 of this Executive Order directs the Department of Homeland Security (DHS) to expedite the completion of a biometric entry-exit tracking system. This new biometric enabled entry and exit ...

[Read more.](#)



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3929 W John Carpenter Freeway
Irving, TX 75063

From: Raderschadt
Sent: Friday, March 21, 2014 8:54 AM
To: Lewin, Jonathan H.
Subject: NeoFace Reference for Bexar SO

Commander Lewin,

NEC is responding to an RFP from the Bexar County Sheriff's Office (TX) ABIS procurement and we would like to reference the Chicago PD's use of NeoFace in our proposal. Is it permissible to use you as a reference in this procurement? As always thank you very much for you use of NeoFace.

Best regards.

Keith

Keith Raderschadt | NeoFace Business Development Manager | Biometrics Solutions Division
W4549 Woodview Lane, Elkhorn, WI 53121 | P 262.742-5093 | M [REDACTED] | F 262.742-5094
<mailto:keith.raderschadt@necam.com> | www.necam.com

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From: NEC Biometrics Solutions <idsolutions@necam.com>
Sent: Tuesday, July 09, 2013 8:30 AM
To: Green, Marveta
Subject: NeoFace Solutions Webinar: Facial Recognition in Government - Making Cities Safer

NeoFace® Solutions Webinar

The Proven Leader at Turning Bad Images into Good Results.

NEC's latest advances in technology have established facial recognition as an effective and non-intrusive tool for identification. Large facial databases are searched quickly and accurately as independent testing confirmed that NeoFace technology is the most resistant to variants in age, race and pose angle.

In the real world, crime scene images are often blurry and of low quality. NEC's advances in facial recognition technology are now turning this previously unusable footage into hard evidence.

NeoFace Solutions produces more matches from poor quality images than any other facial recognition solution. Independent testing confirms that NeoFace technology is the most resistant to variants in aging, race and pose angle.

Join NEC at the Facial Recognition Technology Webinar!

What You Will Learn

- Introduction to Facial Recognition
- Advancements in Facial Recognition
- NIST Test Results & Recent Case Studies
- NeoFace® Reveal – Investigative Application Demo
- NEC Product Suite Overview

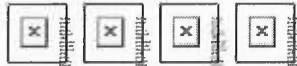
Date & Time

July 23, 2013
1 pm - 2 pm, EST
12 pm - 1 pm, CST
10 am - 11 am, PST

Who Should Attend

- Investigators
- Crime Lab Personnel
- Records Personnel
- IT Personnel
- Supervisors & Managers

Space is limited. **Sign up now!**



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www.necam.com

[Unsubscribe](#)



From: Bill Shephard <bshephard@dataworksplus.com>
Sent: Friday, April 19, 2013 2:32 PM
To: O'Brien, P Timothy
Cc: Conrad Johnson
Subject: Questions posed during Facial Recognition Training 4/17/13

Detective Obrien,

You had asked about support for Court Testimony on cases that the Case Management Client tools are used and with Facial Recognition in general.

We asked NEC about the Matching software that is used on your system. The response from Keith Raderschadt is:

"All FR systems are just like AFIS systems in that the system does not make the match it just provides a candidate list of possible matches. The Examiner make the match. There is an FBI FR/FI course for law enforcement agencies and we highly recommend all Automated Face Recognition System examiners go through this course.

Our Reveal system keeps an audit trail of all image enhancements and uses, this is very similar to our latent fingerprint workstations/systems. This may/will be required for court cases involving electronic FR.

Keith Raderschadt
NeoFace Business Development Manager
(262) 742-5093 Office"

When asking Animetrrics about the method and science involved in creating the 3D model, Paul Scheupp of Animetrics responded with the following:

"First, we do not have any case law precedents testing the validity of our technology output. In fact the guy that leads FISWG, Dr. Richard Vorder Bruggee, is looking at how he can prove what level of accuracy he can see in the output of our 3D model of the face.

I'm not the one to defend the use of an intermediary composed face from the probe which would be used to help sift through millions to find the faces in large database that have likeness to the probe. However, I believe the approach would be to show that the output of the Animetrics 3D technology should be used only as an aide to further the investigation and find similiar faces to the suspect probe original latent photo. This is exactly what PA JNET does and exactly what NYPD is now doing.

It is no different in process than a victim saying the perpetrator looked like Sean Connery. Then the investigator takes a public picture of Sean Connery and uses it to find the top 5 guys in a 4 million size criminal database that looks closest or similiar perhaps to Sean Connery. That is the filter or intermediary step of the investigation. Then throw away the picture of Sean Connery but grab the new suspects of the 5 top likenesses to Sean and see if the victim thinks it 's one of those guys....and check the other data and demographics to see if any of these guys should really be a suspect.

The main capability that ForensicaGPS provides is to do pose correction as a result of using an estimated 3D of the probe. Pose correction then greatly enhances the chances of finding a similar subject in the database. Notice I did not say it finds a match. we do not find matches. All FR systems find the most similar face. It's up the law enforcement to determine if the most similar face is in fact a match based on other evidence aside from the photo.

I can provide a technical white paper published by Wiley for DHS about Animetrics 3D process and accuracy and science and patents. but it needs explaining to the court or judge....no lawyer is going to conclude from it that it's the evidence of truth. The principals of building the 3D via computational anatomy is proven degree of accuracy in the imaging scientific community, not in a court room.

NYPD Inspector MeKeel should be used as an expert subject matter expert on this process. He knows how to handle and explain the process of finding faces in a database. His Real Time Crime Center uses more than forensicaGPS. They also sue Adobe Photoshop and other tools. If the probe has an open mouth, NYPD will replace it with a photoshopped closed mouth so the NEC engine can get a better likeness, likewise if the eyes are closed, NYPD will photoshop in eyes.

In the end the likeness photos found in the criminal database are then compared visually by a facial forensic expert to the original photo probe and not to the poses corrected edited intermediary image which was used as the filter.

I am happy to talk to Chicago about this process and about the benefits and limitations. The FBI used ForensicaGPS as another tool to help as an intermediary step in the database manhunt of the Boston bombing suspects.

I hope this is helpful. I can be reached at the numbers below if there are additional questions.

Bill Shephard
Senior Account Manager
DataWorks Plus LLC
Phone: 716 652 8153
Fax: 716 652 8155
Toll Free: 866 632 2780 Extension 6713
www.DataWorksPlus.com

From: Sakkal
Sent: Tuesday, August 11, 2015 11:02 AM
Subject: RCMP Gazette - New Technology
Attachments: Calgary Police Service Press Release Final 10-31-14.pdf

Good morning to all:

In case you missed it, this article (<http://www.rcmp.gc.ca/gazette/vol77no2/tech-eng.htm>) provides an interesting update to last November's announcement (attached) regarding the adoption of NEC's NeoFace Reveal facial recognition solution by the Calgary Police Service:

The article highlights the effectiveness of a robust facial recognition technology as an additional investigative tool in providing tangible crime solving and resource productivity gains for the law enforcement and public safety communities.

Your comments and or questions are, as always, welcome.

Best...

/PS

Peter Sakkal | Senior Account Manager, Biometrics Solutions Division
555 Legget Dr., Suite 304, Kanata, ON, Canada K2K 2X3 | P 613.569.4983 | M [REDACTED] F 613.287.0451
peter.sakkal@necam.com | www.necam.com

From: Sakkal
Sent: Monday, May 22, 2017 6:02 PM
To: Perfetti, Joseph F.
Cc: Gangumalla, Vishnu; Lukas, Dan
Subject: RE: CPD AFIS Upgrade Budgetary Proposal - Revision
Attachments: CPD Integra-ID MBIS Upgrade_Proposal (Revised)_FINAL_05-22-2017.pdf

Hello Joe,

I hope that all is well with you.

Per your request, please see the attached CPD AFIS upgrade proposal update reflecting the exclusion of Latent Print backend storage and processing based on the assumption that these services will be provided by Illinois State Police.

Upon your review, please let us know if you have any questions or comments.

Thank you,

/PS

Peter Sakkal

Senior Account Manager, Advanced Recognition Systems

NGood afternoonEC Corporation of America

M: [REDACTED] | O: 613.569.4983



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From: Sakkal, Peter
Sent: Tuesday, April 11, 2017 3:25 PM
To: Perfetti, Joseph F. <Joseph.Perfetti@chicagopolice.org>
Cc: Gangumalla, Vishnu <vishnu.gangumalla@necam.com>; Dan.Lukas@necam.com
Subject: RE: CPD AFIS Upgrade Budgetary Proposal - Revision

Okay, understood Joe.

We'll proceed accordingly.

Thank you,

/PS

Peter Sakkal

Senior Account Manager, Advanced Recognition Systems

NEC Corporation of America

M: [REDACTED] | O: 613.569.4983



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From: Perfetti, Joseph F. [mailto:Joseph.Perfetti@chicagopolice.org]
Sent: Tuesday, April 11, 2017 12:24 PM
To: Sakkal, Peter <peter.sakkal@necam.com>
Subject: RE: CPD AFIS Upgrade Budgetary Proposal - Revision

Yes, I would like a quote on the items below

From: Sakkal, Peter [mailto:peter.sakkal@necam.com]
Sent: Monday, April 10, 2017 8:59 AM
To: Perfetti, Joseph F.
Cc: Gangumalla, Vishnu; Lukas, Dan
Subject: CPD AFIS Upgrade Budgetary Proposal - Revision

Good morning Joe,

Thank you, once again, for making time for our meeting last Thursday.

It was very good seeing you again. Our discussion was both enjoyable and helpful.

Per your request, we are going to revise the AFIS upgrade proposal provided to you on February 16, 2017, based on the following changes:

1. Latent back-end storage and processing by CPD will be removed.
 - a. The two CPD IBW latent print workstations described in the aforementioned proposal will be replaced by two next generation Illinois State Police (ISP) ABIS IBW latent print workstations.
 - b. It is assumed that a separate agreement will be reached with ISP providing for back-end storage and processing of CPD latent prints.
 - i. At its request, NEC will prepare a quotation for ISP in this regard based on CPD latent print volumes and throughputs, per the aforementioned proposal.
2. As the CPD AFIS upgrade may be performed under two separate contracts (i.e., orders), NEC will provide budgetary pricing based on both a single project and two distinct project implementation scenarios.
 - a. In the latter scenario, the CPD Archive component would be upgraded first, followed at a later to be determined time by the Tenprint functionality upgrade.
3. Notwithstanding these changes, the revised proposal will still present both the *Traditional* and *IDaaS* upgrade delivery models.

With your confirmation of the preceding points, Joe, our team will begin preparing the revised proposal for timely delivery to you.

In the meantime and as discussed, I will be looking into and advising as to the potential timing for an in-person presentation/demonstration of our latest Integra-ID 5 Multimodal Biometric Identification System (MBIS) and Archive, to be held in Chicago on a mutually convenient date in May-June.

Thanks and best...

/PS

Peter Sakkal

Senior Account Manager, Advanced Recognition Systems

NEC Corporation of America

M: [REDACTED] O: 613.569.4983



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NEC

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From: Perfetti
Sent: Tuesday, February 26, 2013 1:49 PM
To: 'Filippi; Joseph'
Subject: RE: CPD NeoFace Reveal Proposal

Joe,

Can you give me a quote for a database size of 4 million and 5 million? Also, we will only be converting about 3 million photos.

Thx,
Joe

From: Filippi, Joseph [<mailto:Joseph.Filippi@necam.com>]
Sent: Tuesday, February 26, 2013 12:02 PM
To: Perfetti, Joseph F.
Cc: Filippi, Joseph
Subject: FW: CPD NeoFace Reveal Proposal

Joe,
Attached is the electronic version of the FR proposal we presented last week. After you review/confirm the assumptions, database size, etc., please advise and we can adjust the quote accordingly.

Please let me know if you have any questions.

Best regards,

Joe

Joe Filippi | Sr. Account Manager | Biometrics Solutions Division
NEC Corporation of America | www.necam.com |

joseph.filippi@necam.com

10850 Gold Center Drive, Suite 200, Rancho Cordova, CA 95670 | M: [REDACTED] | F 916.463.7040

From: Raderschadt
Sent: Thursday, January 23, 2014 6:58 AM
To: Lewin, Jonathan H.
Subject: RE: Morocco National Police

Understood, thank you very much Commander Lewin.

Best regards.

Keith

Keith Raderschadt | NeoFace Business Development Manager | Biometrics Solutions Division
W4549 Woodview Lane, Elkhorn, WI 53121 | P 262.742-5093 | M [REDACTED] | F 262.742-5094
<mailto:keith.raderschadt@necam.com> | www.necam.com

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From: Lewin, Jonathan H. [<mailto:Jonathan.Lewin@chicagopolice.org>]
Sent: Thursday, January 23, 2014 6:19 AM
To: Raderschadt, Keith
Subject: Re: Morocco National Police

I will check to see if we are allowed.

Sent from my iPhone

On Jan 23, 2014, at 4:22 AM, "Raderschadt, Keith" <Keith.Raderschadt@necam.com> wrote:

Commander Lewin,

We have been asked to provide reference accounts for a face recognition system procurement NEC is bidding in Morocco for their National Police. Would you be able to be a reference for NeoFace for this procurement? If so please provide responses to the section in red listed below. As always, I/we are very thankful to you for all you do for us in promoting NeoFace and latent face activities both here in the US and around the globe.

We have also given your contact information to individuals in the Arizona Fusion Center for an informal discussion on your use of NeoFace in your latent face system and I believe they will be in contact with you soon. We thank you in advance for your taking the call and supporting NeoFace.

<Tender Details (for your information)>

*Tender Name: Purchase of a Complete Solution of Face Recognition and its Establishment at the National Police Department *RFP issued by: Morocco MOI, National Police Dept, Equipment and Budget Division *RFP issued date: Dec 28, 2013 *Use of face recognition for NID application and investigation purpose (database size: 25M records) *RFP deadline: Feb 20, 2014

<"Preferred" Information to be mentioned on Project Reference Certificate> Free format is OK.

Please state that "the system is approved and operational".

*Project name:

*Nature of service (purpose):

*Project amount:

*Date of implementation:

*Date of operation:

*Customer signature (with position of signer)

Best regards.

Keith

Keith Raderschadt | NeoFace Business Development Manager | Biometrics Solutions Division
W4549 Woodview Lane, Elkhorn, WI 53121 | P 262.742-5093 | M [REDACTED] | F 262.742-5094
<mailto:keith.raderschadt@necam.com> | www.necam.com

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From: Filippi
Sent: Wednesday, June 19, 2013 1:02 PM
To: Lewin, Jonathan H.
Cc: Filippi, Joseph
Subject: RE: NEC News Release: NEC NeoFace Facial Recognition Solution Identifies Boston Marathon Bombing Suspect in Michigan State Univ Simulation

Yes sir. You bought the product through our reseller, DataWorks Plus, who use our SDK.

Neo Face reveal is NECs own version with our own front end, a product that was just released. So, rest assured, you have the NEC algorithm that this study touts so highly.

Joe

From: Lewin, Jonathan H. [mailto:Jonathan.Lewin@chicagopolice.org]
Sent: Wednesday, June 19, 2013 1:58 PM
To: Filippi, Joseph
Subject: RE: NEC News Release: NEC NeoFace Facial Recognition Solution Identifies Boston Marathon Bombing Suspect in Michigan State Univ Simulation

Is this a plug-in we're now using?

Cmdr Jonathan H. Lewin
Managing Deputy Director
Public Safety Information Technology
Chicago Police/ OEMC

Voice: 312-746-9205
Facsimile: 312-745-6990
24 Hr Help Desk: 312-744-DATA

www.ChicagoPolice.org

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From: Filippi, Joseph [Joseph.Filippi@necam.com]
Sent: Wednesday, June 19, 2013 12:52 PM
To: Filippi, Joseph
Subject: FW: NEC News Release: NEC NeoFace Facial Recognition Solution Identifies Boston Marathon Bombing Suspect in Michigan State Univ Simulation

I thought you might find this press release interesting as it relates to NeoFace Reveal, NEC's Facial Recognition solution.

Please email or call with any questions.

Thanks,

Joe

From: NECAM Corporate Communications

Sent: Wednesday, June 19, 2013 1:40 PM

To: NECAM Corporate Communications

Cc: Beroukhim, Raffie

Subject: NEC News Release: NEC NeoFace Facial Recognition Solution Identifies Boston Marathon Bombing Suspect in Michigan State Univ Simulation

Distribution: All NECAM & NECAM Subsidiary Employees

NEC Solution Identifies Boston Marathon Bombing Suspect in Simulation by MSU

MSU Study Validates Accuracy and Crime Solving Benefits of Facial Recognition Technology and Raises Question of "What If?" this Breakthrough Facial Processing Software had been applied to Solve Recent High Profile Incidents

Irving, Texas – June 18, 2013 – NEC Corporation of America ([NEC](#)), a leading provider and integrator of advanced IT, communications, managed services and biometric solutions, today announced its NeoFace® Facial Recognition Software solution achieved high accuracy in an independent study conducted by Michigan State University (MSU) and was able to identify a suspect from the recent Boston Marathon Bombing in the same study that simulated the post-bombing forensic work.

The MSU study's focus was to examine the reliability of automated facial recognition (AFR) software to assist law enforcement in identifying suspects in a simulation of the forensic work done after the Boston Bombings. Media reports of the post-Boston Bombing investigation created a common perception that facial recognition technology is not always reliable because it apparently was not a factor in identifying the suspects. The published results of the MSU study challenge this perception.

In the MSU simulation, researchers used actual law-enforcement video from the bombing and searched it against a background database of 1 million law enforcement booking images. They found that the NEC NeoFace product produced a "rank one" identification—a match—of suspect number two.

"As conditions in the study were simulated to be representative of actual crime scene situations, including the limited, poor quality images available to the investigators of the Boston Marathon Bombings, the strong performance of the NEC solution is significant," said Raffie Beroukhim, vice president of NEC's Biometrics Solutions Division.

The MSU study found that the NEC NeoFace solution consistently registered highly accurate facial matching scores in the study's simulation.

The MSU technical paper on evaluating automatic facial recognition technology can be accessed at: <http://www.cse.msu.edu/rgroups/biometrics/>

About NEC Corporation of America

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For More Information - NEC Media Contact:
Frank Puglia
NEC Corporation of America
214.262.3767
frank.puglia@necam.com

From: Raderschadt
Sent: Friday, March 21, 2014 9:01 AM
To: Lewin, Jonathan H.
Subject: RE: NeoFace Reference for Bexar SO

Thank you very much Commander.

Best regards.

Keith

Keith Raderschadt | NeoFace Business Development Manager | Biometrics Solutions Division
W4549 Woodview Lane, Elkhorn, WI 53121 | P 262.742-5093 | M [REDACTED] | F 262.742-5094
<mailto:keith.raderschadt@necam.com> | www.necam.com

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From: Lewin, Jonathan H. [<mailto:Jonathan.Lewin@chicagopolice.org>]
Sent: Friday, March 21, 2014 9:00 AM
To: Raderschadt, Keith
Subject: RE: NeoFace Reference for Bexar SO

I'll check, out of the office today though.

Jonathan

Cmdr Jonathan H. Lewin
Managing Deputy Director
Public Safety Information Technology
Chicago Police/ OEMC

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From: Raderschadt, Keith [Keith.Raderschadt@necam.com]
Sent: Friday, March 21, 2014 8:54 AM
To: Lewin, Jonathan H.
Subject: NeoFace Reference for Bexar SO

Commander Lewin,

NEC is responding to an RFP from the Bexar County Sheriff's Office (TX) ABIS procurement and we would like to reference the Chicago PD's use of NeoFace in our proposal. Is it permissible to use you as a reference in this procurement? As always thank you very much for you use of NeoFace.

Best regards.

Keith

Keith Raderschadt | NeoFace Business Development Manager | Biometrics Solutions Division
W4549 Woodview Lane, Elkhorn, WI 53121 | P 262.742-5093 | M [REDACTED] | F 262.742-5094
<mailto:keith.raderschadt@necam.com> | www.necam.com

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From: O Brien
Sent: Sunday, April 21, 2013 10:15 AM
To: Bill Shephard
Subject: RE: Questions posed during Facial Recognition Training 4/17/13

Thanks Keith...appreciate the response. That course sounds necessary. Did you bring that up to your contact here at the Department?

Thanks again,
Tim

Detective P. Timothy O'Brien
Area 3 Detective Division
Chicago Police Department
2452 W. Belmont Ave.
Chicago, IL 60618
P:312-744-8263
F:312-744-5130
email: timothy.obrien@chicagopolice.org

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From: Bill Shephard [BShephard@DATAWORKSPLUS.com]
Sent: Friday, April 19, 2013 2:32 PM
To: O Brien, P Timothy
Cc: Conrad Johnson
Subject: Questions posed during Facial Recognition Training 4/17/13

Detective Obrien,

You had asked about support for Court Testimony on cases that the Case Management Client tools are used and with Facial Recognition in general.

We asked NEC about the Matching software that is used on your system. The response from Keith Raderschadt is:

"All FR systems are just like AFIS systems in that the system does not make the match it just provides a candidate list of possible matches. The Examiner make the match. There is an FBI FR/FI course for law enforcement agencies and we highly recommend all Automated Face Recognition System examiners go through this course.

Our Reveal system keeps an audit trail of all image enhancements and uses, this is very similar to our latent fingerprint workstations/systems. This may/will be required for court cases involving electronic FR.

Keith Raderschadt
NeoFace Business Development Manager
(262) 742-5093 Office"

When asking Animetrics about the method and science involved in creating the 3D model, Paul Scheupp of Animetrics responded with the following:

"First, we do not have any case law precedents testing the validity of our technology output. In fact the guy that leads FISWG, Dr. Richard Vorder Bruggee, is looking at how he can prove what level of accuracy he can see in the output of our 3D model of the face.

I'm not the one to defend the use of an intermediary composed face from the probe which would be used to help sift through millions to find the faces in large database that have likeness to the probe. However, I believe the approach would be to show that the output of the Animetrics 3D technology should be used only as an aide to further the investigation and find similar faces to the suspect probe original latent photo. This is exactly what PA JNET does and exactly what NYPD is now doing.

It is no different in process than a victim saying the perpetrator looked like Sean Connery. Then the investigator takes a public picture of Sean Connery and uses it to find the top 5 guys in a 4 million size criminal database that looks closest or similar perhaps to Sean Connery. That is the filter or intermediary step of the investigation. Then throw away the picture of Sean Connery but grab the new suspects of the 5 top likenesses to Sean and see if the victim thinks it 's one of those guys....and check the other data and demographics to see if any of these guys should really be a suspect.

The main capability that ForensicaGPS provides is to do pose correction as a result of using an estimated 3D of the probe. Pose correction then greatly enhances the chances of finding a similar subject in the database. Notice I did not say it finds a match. we do not find matches. All FR systems find the most similar face. It's up the law enforcement to determine if the most similar face is in fact a match based on other evidence aside from the photo.

I can provide a technical white paper published by Wiley for DHS about Animetrics 3D process and accuracy and science and patents. but it needs explaining to the court or judge....no lawyer is going to conclude from it that it's the evidence of truth. The principals of building the 3D via computational anatomy is proven degree of accuracy in the imaging scientific community, not in a court room.

NYPD Inspector MeKeel should be used as an expert subject matter expert on this process. He knows how to handle and explain the process of finding faces in a database. His Real Time Crime Center uses more than forensicaGPS. They also sue Adobe Photoshop and other tools. If the probe has an open mouth, NYPD will replace it with a photoshopped closed mouth so the NEC engine can get a better likeness, likewise if the eyes are closed, NYPD will photoshop in eyes.

In the end the likeness photos found in the criminal database are then compared visually by a facial forensic expert to the original photo probe and not to the poses corrected edited intermediary image which was used as the filter.

I am happy to talk to Chicago about this process and about the benefits and limitations. The FBI used ForensicaGPS as another tool to help as an intermediary step in the database manhunt of the Boston bombing suspects.

I hope this is helpful. I can be reached at the numbers below if there are additional questions.

Bill Shephard

Senior Account Manager

DataWorks Plus LLC

Phone: 716 652 8153

Fax: 716 652 8155

Toll Free: 866 632 2780 Extension 6713

www.DataWorksPlus.com

From: Filippi
Sent: Wednesday, July 10, 2013 7:27 AM
To: Lewin, Jonathan H.
Subject: Re: Recent NIST MBE Facial Recognition Test Results

PA Jnet
I will check for more

Sent from my iPhone

On Jul 10, 2013, at 8:18 AM, "Lewin, Jonathan H." <Jonathan.Lewin@chicagopolice.org> wrote:

Do you have a list of other customers (ideally large police depts or law enforcement) who use NeoFace and anyone I can call for some feedback on success stories this morn? (Or if you have any other success stories...) Thx

Cmdr Jonathan H. Lewin
Managing Deputy Director
Public Safety Information Technology
Chicago Police/ OEMC

Voice: 312-746-9205
Facsimile: 312-745-6990
24 Hr Help Desk: 312-744-DATA

www.ChicagoPolice.org

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From: Lewin, Jonathan H.
Sent: Tuesday, July 09, 2013 4:17 PM
To: Filippi, Joseph
Subject: RE: Recent NIST MBE Facial Recognition Test Results

SunTimes possibly tomorrow

Cmdr Jonathan H. Lewin
Managing Deputy Director
Public Safety Information Technology
Chicago Police/ OEMC

Voice: 312-746-9205
Facsimile: 312-745-6990
24 Hr Help Desk: 312-744-DATA

www.ChicagoPolice.org

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From: Filippi, Joseph [Joseph.Filippi@necam.com]
Sent: Monday, July 08, 2013 9:50 AM
To: Lewin, Jonathan H.
Subject: RE: Recent NIST MBE Facial Recognition Test Results

Jonathan,
Hope you had a great holiday weekend.
Just checking to see if the interview took place, and if so, what media outlet?

Thanks
Joe

From: Lewin, Jonathan H. [<mailto:Jonathan.Lewin@chicagopolice.org>]
Sent: Thursday, June 20, 2013 7:56 PM
To: Filippi, Joseph
Subject: Re: Recent NIST MBE Facial Recognition Test Results

Newspaper but we may not be doing it, there was another focus. Can talk tomorrow.

Sent from my iPhone

On Jun 20, 2013, at 6:51 PM, "Filippi, Joseph" <Joseph.Filippi@necam.com> wrote:

Jonathan,
How did the interview go? Was it a newspaper or TV?

Thanks
Joe

From: Lewin, Jonathan H. [<mailto:Jonathan.Lewin@chicagopolice.org>]
Sent: Thursday, June 20, 2013 5:44 PM
To: Filippi, Joseph
Subject: Re: RE: Recent NIST MBE Facial Recognition Test Results

Thanks

From: Filippi, Joseph [<mailto:Joseph.Filippi@necam.com>]
Sent: Thursday, June 20, 2013 04:31 PM
To: Lewin, Jonathan H.
Subject: FW: RE: Recent NIST MBE Facial Recognition Test Results

Jonathan,
Here is the PA press release.....NEC algorithm, and they bought it thru our reseller, DataWorks.

Call if you need more.

Joe

From: Sakkal
Sent: Monday, April 13, 2015 11:49 PM
To: Perfetti, Joseph F.
Cc: Mancuso, Shawn
Subject: RE: updated quote
Attachments: CPD Integra-ID MBIS Upgrade Proposal FINAL 04.13.2015.pdf

Good morning Joe,

As requested, please see the attached Integra-ID MBIS upgrade quote update.

Please let me know if you have any questions.

Thanks and best...

/PS

Peter Sakkal | Senior Account Manager, Biometrics Solutions Division
555 Legget Dr., Suite 304, Kanata, ON, Canada K2K 2X3 | P 613.569.4983 | M [REDACTED] | F 613.287.0451
peter.sakkal@necam.com | www.necam.com

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From: Sakkal, Peter
Sent: Monday, April 13, 2015 11:12 AM
To: Perfetti, Joseph F.
Cc: Mancuso, Shawn
Subject: Re: updated quote

Okay, thanks and understood Joe.

We'll aim to have it sooner than later.

Best

/PS

Sent from my iPhone

On Apr 13, 2015, at 9:51 AM, Perfetti, Joseph F. <Joseph.Perfetti@chicagopolice.org> wrote:

Anytime this week would be fine. I have a preliminary budget meeting coming up and this is one of the topics we will be discussing.

From: Sakkal, Peter [<mailto:peter.sakkal@necam.com>]
Sent: Friday, April 10, 2015 11:41 AM

To: Perfetti, Joseph F.
Subject: RE: updated quote

Okay, we'll get on that right away Joe. How soon do you need the update? Would COB Monday be okay?

Also, may I ask if this request can be interpreted to mean that Integra-ID MBIS upgrade project is a current priority?

Best...

/PS

Peter Sakkal | Senior Account Manager, Biometrics Solutions Division
555 Legget Dr., Suite 304, Kanata, ON, Canada K2K 2X3 | P 613.569.4983 | M [REDACTED] F 613.287.0451
peter.sakkal@necam.com | www.necam.com

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From: Perfetti, Joseph F. [<mailto:Joseph.Perfetti@chicagopolice.org>]
Sent: Friday, April 10, 2015 12:31 PM
To: Sakkal, Peter
Subject: RE: updated quote

Yes. That is all that needs an update

Sent from my Verizon Wireless 4G LTE smartphone

----- Original message -----

From: "Sakkal, Peter"
Date: 04/10/2015 11:18 AM (GMT-06:00)
To: "Perfetti, Joseph F."
Subject: RE: updated quote

Good morning Joe,

Thanks for your note.

Did you require an update of this quote with just the validity date revised?

Please advise.

Thanks,

/PS

Peter Sakkal | Senior Account Manager, Biometrics Solutions Division
555 Legget Dr., Suite 304, Kanata, ON, Canada K2K 2X3 | P 613.569.4983 | M [REDACTED] F 613.287.0451
peter.sakkal@necam.com | www.necam.com

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From: Perfetti, Joseph F. [<mailto:Joseph.Perfetti@chicagopolice.org>]

Sent: Friday, April 10, 2015 12:09 PM

To: Sakkal, Peter

Subject: updated quote

Peter,

Hope all is well. Can you please forward me an updated quote. Same information that you provided in the past will suffice.

Thanks,
Joe

Joseph Perfetti
Director
Records Services Division
312-745-5620

From: Filippi
Sent: Thursday, April 17, 2014 10:13 AM
To: Perfetti, Joseph F.
Cc: Filippi, Joseph
Subject: Reference Question

Joe – Is it OK to use you as a reference as a facial recognition customer of NEC's NeoFace Algorithm (procured through a reseller.)

Please advise as I am submitting a response in the next few days re: this.

Thanks in advance

Best regards,

Joe

Joe Filippi | Sr. Account Manager | Biometrics Solutions Division
NEC Corporation of America | www.necam.com |

joseph.filippi@necam.com

10850 Gold Center Drive, Suite 200, Rancho Cordova, CA 95670 | M [REDACTED] F 916.463.7040

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From: Filippi
Sent: Tuesday, April 15, 2014 12:20 PM
To: Lewin, Jonathan H.
Cc: Filippi, Joseph
Subject: Reference

Commander Lewin,
Hope you are doing well. NEC is responding to a facial recognition RFP, and we would like to know if we can use you as a reference for using our NeoFace algorithm.

Please advise at your earliest convenience.

Best regards,

Joe

Joe Filippi | Sr. Account Manager | Biometrics Solutions Division
NEC Corporation of America | www.necam.com |

joseph.filippi@necam.com

10850 Gold Center Drive, Suite 200, Rancho Cordova, CA 95670 | M [REDACTED] | F 916.463.7040

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From: NEC Biometrics Solutions <idsolutions@necam.com>
Sent: Tuesday, July 16, 2013 8:30 AM
To: Green, Marveta
Subject: [Reminder] NeoFace Solutions Webinar: Facial Recognition in Government - Making Cities Safer

NeoFace® Solutions Webinar

The Proven Leader at Turning Bad Images into Good Results.

NEC's latest advances in technology have established facial recognition as an effective and non-intrusive tool for identification. Large facial databases are searched quickly and accurately as independent testing confirmed that NeoFace technology is the most resistant to variants in age, race and pose angle.

In the real world, crime scene images are often blurry and of low quality. NEC's advances in facial recognition technology are now turning this previously unusable footage into hard evidence.

NeoFace Solutions produces more matches from poor quality images than any other facial recognition solution. Independent testing confirms that NeoFace technology is the most resistant to variants in aging, race and pose angle.

Join NEC at the Facial Recognition Technology Webinar!

What You Will Learn

- Introduction to Facial Recognition
- Advancements in Facial Recognition
- NIST Test Results & Recent Case Studies
- NeoFace® Reveal – Investigative Application Demo
- NEC Product Suite Overview

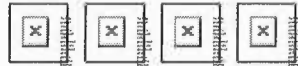
Date & Time

July 23, 2013
1 pm - 2 pm, EST
12 pm - 1 pm, CST
10 am - 11 am, PST

Who Should Attend

- Investigators
- Crime Lab Personnel
- Records Personnel
- IT Personnel
- Supervisors & Managers

Space is limited. **Sign up now!**



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From: NEC <idsolutions@necam.com>
Sent: Monday, March 03, 2014 9:34 AM
To: Mc Mullen, Jesse C.
Subject: Webinar: Gain Greater Mobility & Productivity with Field-proven Identification {Reminder}



Webinar: Gain Greater Mobility & Productivity with Field-proven Identification

Date: Wednesday, March 5, 2014

Time: 11am PST

[Register Now](#)

In response to the advancement, proliferation, and widespread adoption of smartphone and tablet devices, NEC has developed mobile solutions to support law enforcement, public safety, and security agencies with their field operations.

NEC's NeoFace® Smart ID is a suite of mobile software applications for biometric capture that can be used to rapidly identify suspects and victims in the field as well as collect crime scene evidence to help investigators solve crimes.

The NeoFace® Smart ID solution suite is the most accurate fingerprint and facial recognition software available today, as independently tested by the U.S. National Institute of Standards and Technology (NIST). Recent NIST facial evaluation demonstrated that NEC's NeoFace solution provides the fastest matching capability while remaining resistant to variants in angle, age, gender, and race.

Highlights:

- Multi-modal biometric capture, including face, finger, and voice
- Latent capture and processing for field identification
- Local watch list capability on the device



MEET THE SPEAKER



John Dowden

Senior Product Manager

Biometrics Solutions Group

NEC Corporation of America



- Local and remote biometric search
- Available Credential Reading, including Driver's License, Barcode, and Magnetic Stripe

Sign up for the Webinar to learn how NEC's NeoFace Smart ID solution can benefit your organization.



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From: NEC <idsolutions@necam.com>
Sent: Wednesday, February 12, 2014 9:33 AM
To: Siergiej, John
Subject: Webinar: Gain Greater Mobility & Productivity with Field-proven Identification



Webinar: Gain Greater Mobility & Productivity with Field-proven Identification

Date: Wednesday, March 5, 2014
Time: 11am PST

[Register Now](#)

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NEC's NeoFace® Smart ID is a suite of mobile software applications for biometric capture that can be used to rapidly identify suspects and victims in the field as well as collect crime scene evidence to help investigators solve crimes.

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- Latent capture and processing for field identification
- Local watch list capability on the device
- Local and remote biometric search



MEET THE SPEAKER



John Dowden
Senior Product Manager
Biometrics Solutions Group
NEC Corporation of America



- Available Credential Reading, including Driver's License, Barcode, and Magnetic Stripe

Sign up for the Webinar to learn how NEC's NeoFace Smart ID solution can benefit your organization.



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From: NEC <idsolutions@necam.com>
Sent: Wednesday, February 26, 2014 9:38 AM
To: Chapman, Jeffrey B.
Subject: Webinar: Gain Greater Mobility & Productivity with Field-proven Identification {Reminder}



Webinar: Gain Greater Mobility & Productivity with Field-proven Identification

Date: Wednesday, March 5, 2014

Time: 11am PST

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Highlights:

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MEET THE SPEAKER



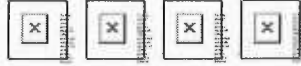
John Dowden

Senior Product Manager
Biometrics Solutions Group
NEC Corporation of America



- Local and remote biometric search
- Available Credential Reading, including Driver's License, Barcode, and Magnetic Stripe

Sign up for the Webinar to learn how NEC's NeoFace Smart ID solution can benefit your organization.



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From: Raffie Beroukhim <raffie.beroukhim@necam.com>
Sent: Wednesday, July 30, 2014 9:32 AM
To: Green, Marvetta
Subject: The Results Are in: NeoFace Takes First Place... Again



The Results Are in: NeoFace Takes First Place... Again

Dear Marvetta,

I want to share some of our recent good news with you.

NEC's face recognition technology recently achieved the highest performance evaluation in the recent Face Recognition Vendor Test (FRVT) 2014 performed by the U.S. National Institute of Standards and Technology (NIST).

The NIST report is widely viewed as the benchmark of determining which face recognition software solution is the most accurate for one-to-many searching under a variety of situations.

NEC's technology took first place for the third consecutive time following the 2009 Multiple Biometric Grand Challenge (MBGC 2009) and 2010-2011 Multiple Biometrics Evaluation (MBE 2010-2011).

Twelve commercial vendors and four academic institutions participated within the FRVT evaluation, which consisted of several test scenarios designed to determine accuracy based on measured error rates. Not only did NEC's search accuracy exceed competitors by a wide margin, it also improved significantly from the past MBE 2010 testing.

The NEC press release announcing the NIST results and more about the outstanding results NeoFace registered in the latest NIST report can be found [here](#).

Best regards,



Raffie Beroukhim
Vice President, NEC Biometrics Solutions Division



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From: Allen Ganz <allen+2Eganz=necam.com@sp02.hubspotemail.net> on behalf of allen+2eganz=necam.com@sp02.hubspotemail.net
Sent: Tuesday, July 25, 2017 3:30 PM
To: Georgas, Steve E.
Subject: Thank you for joining us at NCS4



Dear Steve,

Thank you for stopping by to see us at NCS4 in Orlando. We enjoyed connecting with you!

I hope you had the opportunity to see the new rapid-access biometric solution, **NeoFace® Express**, based on NEC's world-renowned facial recognition technology, along with our **NeoFace® Watch** solution for real-time screening.

NeoFace Express and NeoFace Watch are high-performance facial recognition solutions that help secure stadiums and event venues. The unique capabilities are the result of NEC's years of research and global deployment experience in high throughput identity validation. Robust capture process allows verification and identification in a variety of high-demand, high-traffic areas enabling enhanced security, operations and investigations.

To learn more about how we are innovating in the facial recognition sector, watch this [short video](#) and read additional information on [NeoFace Express](#) and [NeoFace Watch](#).

I welcome the opportunity to discuss any questions you may have regarding NEC's Advanced Recognition Solutions and share ways we can help you and your organization further. Please email or call me directly.

Best regards,

Allen Ganz
Senior Manager, Critical Infrastructure
NEC Advanced Recognition Systems
allen.ganz@necam.com
(917) 684-1049



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From: NEC <idsolutions@necam.com>
Sent: Thursday, October 19, 2017 9:30 AM
To: West, Barbara J.
Subject: [SUSPECTED SPAM] {REMINDER} Interested in solving crimes faster? See NEC's NeoFace® in action at the IACP Conference



Dear Barbara,

With threats on the rise and criminals growing more sophisticated by the day, citizens trust law enforcement agencies to stay one-step ahead. The key to keeping communities safe is accuracy, reliability and speed.

This year, NEC's Advanced Recognition Systems is a platinum sponsor at the IACP Conference 2017. **Visit us in Independence Ballroom III** at the Marriott (connecting to the Convention Center) to learn how NEC's high-performance facial recognition solutions are improving identity recognition, investigations and intelligence analysis.

From city streets to mass transit to stadiums, NEC's NeoFace solutions **help you enhance safety, investigate events and prevent recurring incidents.**

We invite you to **schedule a personalized demo or solution overview** with one of our subject matter experts so you can learn about how we are innovating in the biometrics sector and what successes we've had supporting our law enforcement clients.

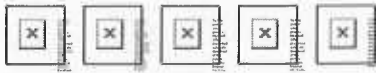


Also, please join John Dowden's **Biometrics and Video Analytics Workshop** on Monday, October 23 at 1pm in room 105AB. As part of this workshop, John will explain and demonstrate the latest biometric and video analytic technologies that can be utilized to render advanced recognition systems.

We look forward to seeing you in Philadelphia at the IACP Conference!

Best regards,
The NEC Advanced Recognition Systems Team





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From: Allen Ganz <allen.ganz@necam.com>
Sent: Monday, July 10, 2017 12:30 PM
To: Georgas, Steve E.
Subject: See NEC's NeoFace® in action in Booth #200 at NCS4



Dear Steve,

At the 2017 National Sports Safety and Security Conference, NEC Corporation of America (NEC) will show the new rapid-access biometric solution, NeoFace Express, based on NEC's world-renowned facial recognition technology. We would like to invite you to come see our newest product, along with our NeoFace Watch solution, live and in person.

NeoFace Express and NeoFace Watch are high-performance facial recognition solutions that help secure stadiums and event venues. The unique capabilities are the result of NEC's years of research and global deployment experience in high throughput identity validation. Robust capture process allows verification and identification in a variety of high-demand, high-traffic areas enabling enhanced security, operations and investigations.

Stop by our **booth #200** to see how NEC's Advanced Recognition Systems solutions can work for you.

Hope to see you there!

Best regards,

Allen Ganz
Senior Manager, Critical Infrastructure
NEC Advanced Recognition Systems



[Unsubscribe](#)



From: Filippi
Sent: Wednesday, March 13, 2013 3:46 PM
To: Perfetti, Joseph F.
Cc: Filippi, Joseph
Subject: Revised Pricing for Reveal
Attachments: CPD Reveal Quote (4M - 5M Option).pdf

Joe,
The attached confirms our earlier conversation regarding NeoFace Reveal with the new assumptions of 4M and 5M size database. Please advise if you have any questions.

Best regards,

Joe

Joe Filippi | Sr. Account Manager | Biometrics Solutions Division
NEC Corporation of America | www.necam.com |

joseph.filippi@necam.com

10850 Gold Center Drive, Suite 200, Rancho Cordova, CA 95670 | M [REDACTED] F 916.463.7040

From: NEC Biometrics Solutions <idsolutions@necam.com>
Sent: Tuesday, July 16, 2013 8:30 AM
To: Green, Marveta
Subject: [Reminder] NeoFace Solutions Webinar: Facial Recognition in Government - Making Cities Safer

NeoFace® Solutions Webinar

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Join NEC at the Facial Recognition Technology Webinar!

What You Will Learn

- Introduction to Facial Recognition
- Advancements in Facial Recognition
- NIST Test Results & Recent Case Studies
- NeoFace® Reveal – Investigative Application Demo
- NEC Product Suite Overview

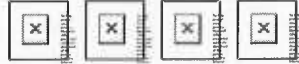
Date & Time

July 23, 2013
1 pm - 2 pm, EST
12 pm - 1 pm, CST
10 am - 11 am, PST

Who Should Attend

- Investigators
- Crime Lab Personnel
- Records Personnel
- IT Personnel
- Supervisors & Managers

Space is limited. **Sign up now!**



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Subject: CPD AFIS Upgrade Proposals Scope Review
Location: Teleconference - Dial-in 1-240-454-0879 // Conference code: 930 599 42

Start: Wed 5/24/2017 9:30 AM
End: Wed 5/24/2017 10:00 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Sakkal, Peter

The purpose of this telecom meeting is to discuss/review at a high level the variations in solution scope between the three attached proposals.

Thank you,

/PS



CPD Integra-ID



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MBIS Upgrade_P... MBIS Upgrade P... MBIS Upgrade P...